

HTGEO86	703733	5940	57 - 272	15692	Arg-1 to Ser-11, Asp-21 to Leu-29.	S0218: 2	
HTGEO94	723097	5941	422 - 622	15693		S0218: 1 and H0063: 1.	
HTGEP20	799683	5942	13 - 276	15694	Ser-3 to Ser-10, Pro-37 to Thr-44, Phe-67 to Gln-74.	H0264: 2 and S0218: 1.	
HTGEP92	789681	5943	44 - 352	15695		S0218: 1 and S0428: 1.	
HTGEQ11	967047	5944	3 - 311	15696	Arg-1 to Gly-8, Pro-26 to Gly-34.	AR089: 1, AR061: 1	
HTGEQ34	703443	5945	27 - 161	15697	Lys-16 to Asn-23.	S0218: 2	
HTGEQ40	711181	5946	1 - 69	15698		S0218: 2	
HTGEQ61	741828	5947	39 - 218	15699	Lys-28 to Asn-35.	S0218: 1, H0444: 1 and H0422: 1.	
HTGEQ68	753031	5948	178 - 330	15700	Val-23 to Pro-31.	S0218: 2	
HTGER72	683469	5949	96 - 215	15701		S0218: 1 and S0053: 1.	
HTGET46	719048	5950	1 - 270	15702	Gly-1 to Cys-6, Leu-18 to Lys-26, Glu-33 to Arg-43, Ile-63 to Ile-82.	S0218: 2 and H0580: 1.	
HTGET82	778928	5951	158 - 310	15703		S0218: 1 and H0521: 1.	
HTGEU06	935470	5952	3 - 128	15704		S0114: 1 and S0218: 1.	
HTGFC20	668924	5953	2 - 232	15705	Gln-8 to Asn-17, Asp-24 to Gln-30, Arg-41 to Cys-48, Ala-71 to Phe-77.	S0218: 1 and H0255: 1.	
HTGFC70	757193	5954	206 - 364	15706		S0218: 2	
HTGFK43	669222	5955	3 - 323	15707	Asp-5 to Thr-13.	S0218: 2 and L0758: 1.	
HTGFN46	974106	5956	313 - 501	15708	Leu-1 to Cys-7.	S0218: 4	
HTGFO51	866957	5957	2 - 166	15709	Ser-1 to Cys-8.	S0218: 2 and S0114: 1.	
HTGFO75	767032	5958	53 - 280	15710	His-1 to Lys-6, Val-45 to Tyr-54.	H0265: 1 and S0218: 1.	
HTGFP07	952555	5959	147 - 341	15711	Val-9 to Val-15, Trp-44 to Arg-54.	S0218: 2, L0369: 1 and L0376: 1.	
HTGFP49	722626	5960	90 - 239	15712	Met-27 to Ser-33.	S0218: 2	
HTGFP59	738974	5961	31 - 135	15713	Tyr-10 to Gly-17.	S0218: 2	
HTGFP62	742908	5962	32 - 223	15714		S0218: 2	

HTGFR80	810302	5963	27 - 257	15715	Leu-70 to Ser-76.	S0134: 1 and S0218: 1.	
HTGFW29	690276	5964	1 - 249	15716	Gly-20 to Pro-27.	S0218: 1 and H0264: 1.	
HTGFW63	744678	5965	167 - 556	15717		L0747: 2, S0218: 1 and H0423: 1.	
HTGFX16	656777	5966	3 - 329	15718	Pro-33 to Ala-46, Asn-54 to Val-69, Pro-73 to Ser-78, Glu-93 to Pro-101.	S0218: 1 and H0581: 1.	
HTGFX82	779055	5967	75 - 278	15719	Asn-34 to Lys-40.	S0218: 2	
HTGFZ03	923443	5968	3 - 275	15720		AR089: 1, AR061: 1 S0218: 1 and H0485: 1.	
HTGFZ35	707730	5969	13 - 285	15721	Ser-60 to Leu-66.	S0218: 2	
HTGFZ58	735683	5970	59 - 190	15722		H0265: 1 and S0218: 1.	
HTGGL08	958583	5971	2 - 232	15723		S0218: 2	
HTGGL11	966328	5972	3 - 158	15724		S0218: 2	
HTGGL23	974590	5973	3 - 449	15725		S0218: 2	
HTGGL32	698714	5974	114 - 266	15726	Asp-1 to Ser-7, Lys-23 to Ile-28.	S0218: 2	
HTGGL43	714932	5975	36 - 218	15727	Leu-11 to Gln-16.	S0218: 2	
HTGGL79	774657	5976	2 - 103	15728	Thr-1 to Asn-10.	S0218: 2	
HTGGM20	669083	5977	7 - 129	15729	Arg-20 to Gly-26.	S0218: 1, S0212: 1, H0318: 1 and L0648: 1.	
HTGGN13	869239	5978	2 - 235	15730	Pro-10 to Ala-16.	S0218: 2 and H0556: 1.	
HTGGN92	927051	5979	3 - 197	15731		H0556: 1 and S0218: 1.	
HTHAA47	503638	5980	59 - 313	15732		H0222: 1 and H0062: 1.	
HTHBA07	954426	5981	27 - 203	15733		H0063: 2 and L0657: 1.	
	954427	9598	265 - 62	19350			
HTHBA18	502818	5982	3 - 128	15734		H0063: 2	
HTHBA68	915236	5983	3 - 392	15735		H0556: 1 and H0063: 1.	
HTHBC31	578568	5984	259 - 468	15736	Tyr-10 to Thr-16.	H0063: 1 and H0423: 1.	
HTHBC37	502935	5985	101 - 256	15737	Thr-6 to Leu-11.	H0063: 2	
HTHBG67	964562	5986	172 - 318	15738		H0220: 1, H0486: 1, H0063: 1 and H0625: 1.	
HTHBK65	526716	5987	1 - 132	15739		H0063: 2	
HTHBL65	921965	5988	1 - 366	15740	Glu-6 to Thr-17.	H0402: 1 and H0063: 1.	

HTHBO09	531115	5989	3 - 140	15741	Tyr-23 to Arg-38.	S0114: 1 and H0063: 1.	
HTHBQ94	529671	5990	85 - 243	15742	Lys-11 to Glu-19.	H0063: 1 and H0264: 1.	
HTHBU75	557957	5991	2 - 133	15743	Pro-23 to Glu-35.	H0265: 1 and H0063: 1.	
HTHBW69	757741	5992	85 - 246	15744		H0318: 1 and H0063: 1.	
HTHBY64	712474	5993	320 - 493	15745	Ser-25 to Tyr-30.	H0063: 2 and S0052: 2.	
HTHCA17	572407	5994	107 - 298	15746	Lys-19 to Leu-24.	H0063: 1 and H0264: 1.	
HTHCA75	712649	5995	208 - 477	15747		H0063: 1, H0272: 1 and L0749: 1.	
HTHCB68	660309	5996	3 - 359	15748	His-1 to Ser-7, Thr-33 to Gly-40.	H0063: 2	2q37.2
HTHCB83	578858	5997	109 - 321	15749	Cys-24 to Asn-33, Ala-53 to Ser-61.	H0063: 2	
HTHCC54	578877	5998	131 - 340	15750	His-8 to Asp-13, Arg-21 to Cys-29.	H0063: 2	
HTHCD17	664274	5999	62 - 331	15751	Asp-1 to Glu-6.	H0063: 2	
HTHCD91	973272	6000	407 - 535	15752		H0063: 3	
HTHCG11	967275	6001	117 - 245	15753	Tyr-29 to Ile-37.	H0063: 1 and H0521: 1.	
HTHCG86	578843	6002	1 - 165	15754	Gly-1 to Lys-12, Arg-19 to Ser-27.	H0063: 1 and H0543: 1.	
HTHCH22	630239	6003	293 - 547	15755		H0305: 1, H0589: 1, H0063: 1 and L0591: 1.	
HTHCJ42	578875	6004	82 - 291	15756		H0063: 2	
HTHCK38	579080	6005	3 - 275	15757		H0063: 1 and H0264: 1.	
HTHCK42	870355	6006	239 - 376	15758		H0063: 2	
HTHCK91	922873	6007	1 - 141	15759		H0063: 1 and S0426: 1.	
HTHCM08	959719	6008	20 - 268	15760	Lys-19 to Asn-27.	H0063: 2	
HTHCM19	842036	6009	199 - 375	15761	Gly-24 to Arg-29.	H0305: 3, H0581: 1 and H0063: 1.	
HTHCM39	578831	6010	147 - 350	15762	Asn-28 to Phe-43.	H0063: 2	
HTHCN38	578826	6011	183 - 371	15763	Pro-1 to Ser-9.	H0063: 2	
HTHCO28	705888	6012	1 - 231	15764		S0114: 1 and H0063: 1.	
HTHCO92	578757	6013	1 - 84	15765		L0794: 3, L0766: 2, H0581: 1, H0063: 1, L0792: 1, L0438: 1, L0439: 1 and	

HTHCQ31	926330	6014	391 - 624	15766	Leu-48 to Arg-60.	L0779: 1. H0063: 1, L0766: 1, L0748: 1 and H0543: 1.	
HTHCQ63	959994	6015	224 - 361	15767		S0116: 2 and H0063: 1. H0063: 2	
HTHCR16	578722	6016	3 - 296	15768	His-1 to Pro-14, Arg-19 to Val-25, Cys-29 to His-42, Pro-62 to Arg-68, Cys-83 to Glu-92.		
HTHCT64	856477	6017	44 - 286	15769	Glu-1 to Ala-11.	H0063: 1 and H0445: 1.	
HTHCU43	578849	6018	199 - 297	15770		H0063: 2	
HTHCU85	578851	6019	159 - 314	15771	Lys-35 to Gly-42.	H0063: 2	
HTHCV21	671098	6020	2 - 211	15772	Asn-45 to Ser-50.	S0134: 1, L0717: 1, H0063: 1 and L0749: 1.	104770, 107670, 110700, 145001, 146760, 146790, 159440, 159440, 159440, 186780, 191030, 191315, 600923, 601412, 601652, 601863, 602491
HTHCV22	419714	6021	2 - 205	15773	Gly-48 to Lys-55.	H0063: 2	
HTHCV59	937393	6022	45 - 374	15774	Leu-71 to Gly-78.	AR089: 17, AR061: 10 H0318: 1 and H0063: 1. H0580: 1 and H0063: 1.	
HTHCW35	707732	6023	55 - 147	15775		H0063: 2	
HTHCW45	578823	6024	3 - 152	15776	Ile-16 to His-22.	H0063: 2	
HTHCW83	578828	6025	73 - 252	15777	Leu-1 to Lys-8, Thr-20 to Asn-26.	H0063: 2	
HTHCX84	578874	6026	29 - 280	15778		H0063: 2	
HTHCY12	971165	6027	222 - 515	15779	Pro-22 to Pro-32, Arg-40 to Lys-50, Ala-69 to Gly-74.	L0766: 3, H0063: 2, L0769: 1, L0779: 1 and L0759: 1.	
HTHCZ96	578876	6028	94 - 306	15780	Arg-1 to Thr-7, Phe-27 to Ala-47.	H0063: 2	
HTHDD40	707065	6029*	2 - 367	15781	Arg-18 to Val-37.	H0063: 2	
HTHDE26	869483	6030	160 - 546	15782	Pro-52 to Leu-58.	H0063: 1, H0576: 1 and	



HTHDE44	791641	6031	286 - 363	15783			H0445: 1.		
HTHDE91	967215	6032	164 - 307	15784			H0063: 1 and S0428: 1.		
HTHDF38	870339	6033	1 - 186	15785		Asn-10 to Leu-15, Phe-35 to Leu-42, Ser-56 to Arg-62.	H0063: 1 and H0423: 1. H0637: 1, H0063: 1, L0598: 1, H0542: 1 and H0423: 1.		
HTHDM24	574675	6034	84 - 242	15786		Val-4 to His-15.	H0250: 1, H0271: 1 and H0063: 1.		
HTHDM34	490926	6035	78 - 1	15787		Lys-1 to Thr-9, Leu-17 to Arg-26.	H0063: 5		
HTHDI31	973304	9599	332 - 457	19351					
HTHDI43	959718	6036	173 - 304	15788			H0063: 2		
HTHDI43	870335	6037	1 - 243	15789		Ser-40 to Asp-46, Val-48 to Lys-63.	H0063: 2		
HTHDM25	578878	6038	145 - 333	15790			H0063: 2 and L0519: 1.		
HTHDM65	579199	6039	145 - 252	15791			H0063: 2		
HTHDM69	578834	6040	213 - 383	15792		Asn-3 to Gly-11.	H0063: 2		
HTHDP70	578882	6041	134 - 268	15793			H0063: 2		
HTHDQ85	966858	6042	33 - 227	15794		Lys-37 to Gly-43, Phe-57 to Thr-65.	H0063: 1 and H0272: 1.		
HTHDR09	579076	6043	2 - 220	15795		Arg-1 to Gly-16, Ala-28 to Ala-34, Ser-40 to Lys-53.	H0063: 2		
HTHDR24	578848	6044	2 - 208	15796		Ala-1 to Lys-13, Leu-19 to Ile-24, Tyr-26 to Ile-31, Pro-40 to Lys-46.	H0063: 2		
HTHDM80	764136	6045	400 - 558	15797		Leu-19 to Arg-31.	H0580: 1 and H0063: 1.		
HTJAB35	491273	6046	519 - 313	15798			AR089: 14, AR061: 3 H0063: 2, H0487: 1 and H0445: 1.		
	853995	9600	358 - 185	19352					
	880424	9601	239 - 457	19353					
HTJAB39	705432	6047	111 - 260	15799			L0539: 1, H0580: 1 and H0487: 1.		
HTJAD26	681865	6048	112 - 348	15800		Thr-59 to His-67.	H0487: 1 and S0002: 1.		

HTJAE28	703321	6049	113 - 292	15801		H0487: 1 and H0423: 1.		
HTJAE42	668339	6050	245 - 379	15802		H0583: 1, H0487: 1, L0805: 1 and L0740: 1.		
HTJMB71	760226	6051	448 - 200	15803		H0265: 1, H0402: 1, H0488: 1 and H0522: 1.		
	760247	9602	448 - 200	19354				
HTJMD95	924240	6052	222 - 368	15804		H0488: 2		
HTJMH80	774407	6053	115 - 393	15805	Glu-1 to Tyr-7.	H0488: 3		
HTJMQ69	754605	6054	104 - 310	15806		H0591: 2 and H0488: 1.		
HTJMR65	729039	6055	1 - 120	15807	Gly-1 to Gly-9, Pro-16 to Leu-25.	H0488: 2		
HTJMT23	948518	6056	2 - 241	15808		H0488: 2		
HTJMT75	766883	6057	253 - 447	15809		H0488: 2 and L0749: 1.		
HTJMU34	870316	6058	2 - 211	15810		H0488: 2		
HTJMU77	771677	6059	2 - 283	15811	Glu-17 to Ser-26, Lys-61 to Lys-70, Phe-86 to Cys-93.	H0488: 1, L0762: 1, H0543: 1 and H0422: 1.		
HTJMU87	870315	6060	1 - 300	15812	Glu-23 to Tyr-28.	H0069: 1 and H0488: 1.		
HTJMV80	775766	6061	29 - 220	15813	Thr-17 to Ser-24, Glu-28 to Lys-38, Ser-43 to Val-49, Ser-56 to Lys-64.	H0488: 2 and L0605: 1.		
HTJMW42	713132	6062	276 - 461	15814		H0271: 1 and H0488: 1.		
HTJMX71	759910	6063	67 - 255	15815	Tyr-54 to Gln-59.	S0212: 1 and H0488: 1.		
HTJMZ90	787655	6064	7 - 102	15816		H0488: 2		
HTJNB83	766881	6065	1 - 138	15817		H0488: 2		
HTJNC42	713142	6066	61 - 222	15818		S0212: 1 and H0488: 1.	8	
HTJNC53	793328	6067	78 - 332	15819		H0488: 2		
HTJND12	870311	6068	196 - 417	15820		H0488: 2		
HTJNI42	924726	6069	2 - 373	15821	Thr-1 to His-6, Phe-8 to Pro-24, Leu-59 to Ser-75.	H0488: 1 and S0002: 1.		
HTJNK36	924939	6070	172 - 441	15822	Arg-19 to Gly-28.	H0271: 2, H0488: 1, L0438: 1 and L0439: 1.		
HTJNM52	795110	6071	7 - 306	15823	Pro-24 to Ala-29.	T0002: 1, H0488: 1 and		

HTJNQ25	771941	6072	2 - 205	15824	Arg-14 to His-23.	L0602: 1.	
HTJNR19	781702	6073	3 - 161	15825		H0318: 1 and H0488: 1.	
HTJNS23	870336	6074	2 - 535	15826	Ser-8 to Lys-15, Pro-30 to Asp-36.	H0265: 1 and H0488: 1. H0063: 1 and H0488: 1.	
HTJNV55	931039	6075	2 - 244	15827		H0581: 1 and H0488: 1.	
HTOAA48	870027	6076	2 - 265	15828		H0264: 2	
HTOAF15	866201	6077	2 - 610	15829	Tyr-51 to Glu-57, Ser-164 to Pro-171, Pro-185 to Lys-198.	AR051: 50, AR050: 37, AR054: 35 H0179: 2, L0519: 2, H0265: 1, H0264: 1, L0541: 1, S0053: 1 and S0216: 1.	
HTOAI35	799686	6078	53 - 121	15830		H0264: 3	
HTOAI69	529555	6079	2 - 97	15831	Gln-3 to Asn-8, Glu-22 to Arg-27.	H0264: 2	
HTOAI93	751902	6080	47 - 235	15832		H0264: 2	
HTOAK34	966800	6081	918 - 1196	15833	Ser-67 to Trp-77.	AR089: 1, AR061: 1 L0766: 2, H0264: 1 and H0521: 1.	
HTOAK36	921745	6082	1 - 204	15834	Tyr-31 to Arg-40.	H0264: 2	
HTOAO19	954183	6083	81 - 164	15835		H0264: 2	
HTOAO75	530192	6084	23 - 214	15836	Asn-6 to Phe-16.	H0264: 2	
HTOAT80	530186	6085	3 - 284	15837		H0264: 2	
HTOAU62	738214	6086	3 - 398	15838		H0416: 1 and H0264: 1.	
HTOAU94	620370	6087	10 - 195	15839		H0264: 1, S0002: 1 and H0521: 1.	
HTOAW19	530114	6088	85 - 180	15840	Leu-14 to Glu-24.	H0264: 2	
HTOAW26	530116	6089	2 - 61	15841		H0264: 2	
HTOAW37	507322	6090	177 - 392	15842		H0264: 2 and L0439: 1.	
HTOBA06	960618	6091	3 - 395	15843	Gly-1 to Tyr-9, His-37 to Pro-42, Lys-125 to Pro-131.	H0581: 1, H0272: 1 and S0428: 1.	
HTOBA10	839919	6092	1 - 168	15844	His-40 to Arg-52.	H0272: 1 and H0445: 1.	
HTOBE15	715538	6093	12 - 176	15845	Ser-6 to His-12, Lys-31 to Ser-36.	H0264: 1 and H0272: 1.	

HTOBF03	925407	6094	57 - 146	15846			H0272: 2	
HTOBF07	954184	6095	10 - 141	15847	Pro-14 to Gly-35.		H0272: 2	
HTOBF35	530325	6096	6 - 314	15848	Lys-10 to Gly-16.		H0272: 2	
HTOBF27	682263	6097	2 - 250	15849	Arg-16 to Thr-22.		H0272: 1, S0002: 1 and L0748: 1.	
HTOBF70	740977	6098	27 - 146	15850	Ser-3 to Pro-9.		H0272: 1 and H0488: 1.	
HTOBF11	966734	6099	32 - 169	15851			H0063: 1 and H0272: 1.	
	966776	9603	356 - 192	19355				
HTOCF92	530009	6100	199 - 411	15852	Arg-33 to Lys-38, Pro-60 to Lys-67.		H0272: 2 and L0748: 1.	
HTOCK26	523838	6101	2 - 187	15853	Ser-29 to Gln-34.		H0272: 2 and L0791: 1.	
HTODB23	530149	6102	2 - 142	15854			H0264: 2	
HTODC33	921426	6103	1 - 549	15855			L0766: 6, L0754: 4, L0779: 4, H0264: 2, L0747: 2 and L0777: 1.	
HTODE04	927826	6104	3 - 209	15856			H0264: 3	
HTODE78	530397	6105	20 - 160	15857	Asn-1 to Glu-7, Val-40 to Glu-47.		H0264: 2	
HTODG07	880911	6106	90 - 215	15858	Gly-1 to Ser-7.		H0264: 2	
HTODG10	968505	6107	38 - 157	15859	Glu-1 to Glu-10.		H0264: 2	
HTODG16	909952	6108	1 - 492	15860	Arg-80 to Lys-88, Ser-94 to Arg-103.		AR089: 22, AR061: 6 H0264: 2 and L0766: 1.	
HTODG47	799691	6109	48 - 221	15861	Pro-14 to Ala-19.		H0264: 3 and L0361: 1.	
HTODG55	852560	6110	3 - 194	15862	His-2 to Pro-12.		H0264: 2 and H0521: 1.	
HTODG58	869998	6111	3 - 122	15863	Ile-11 to Tyr-18, Met-29 to Gln-35.		H0264: 2	
HTODG60	558007	6112	19 - 216	15864	Thr-23 to Asn-34, Gln-53 to Phe-58.		H0264: 2	
HTODG83	676384	6113	1 - 135	15865	Arg-27 to Val-33.		H0264: 2	
HTODH04	925386	6114	107 - 286	15866	Pro-31 to Lys-36.		H0264: 2	
HTODH37	708892	6115	70 - 234	15867	Ser-27 to His-34.		S0114: 1 and H0264: 1.	
HTODL81	507295	6116	47 - 178	15868	Val-3 to Gln-8.		H0264: 2	
HTODL85	799701	6117	171 - 302	15869	Phe-38 to Leu-44.		H0264: 4 and H0179: 1.	
HTODM58	811293	6118	3 - 215	15870	Ser-1 to Asn-12.		H0264: 3.	
HTODN21	869967	6119	38 - 163	15871			H0264: 2	

HTODN27	684343	6120	183 - 326	15872		H0581: 1, H0264: 1 and H0521: 1.		
HTODN68	527862	6121	4 - 147	15873	Asp-35 to Ser-40.	H0179: 1 and H0264: 1.	Yq11	400003, 415000
HTOEA06	960551	6122	86 - 211	15874	Lys-8 to Phe-14.	H0264: 3		
HTOEA12	967754	6123	166 - 357	15875	Ala-37 to Met-44.	H0264: 2		
HTOEA25	523546	6124	40 - 96	15876	Thr-9 to Asn-14.	H0264: 2		
HTOEC81	529834	6125	48 - 167	15877	Arg-1 to Thr-18.	H0264: 2		
HTOEC94	529839	6126	213 - 302	15878	Ser-25 to Arg-30.	H0264: 2		
HTOED10	839798	6127	61 - 318	15879	Gln-19 to Leu-24, Ser-28 to Gly-35.	H0069: 1 and H0264: 1.		
HTOED61	742158	6128	214 - 339	15880		S0142: 2 and H0264: 1.		
HTOEG69	967562	6129	3 - 149	15881		H0264: 2		
HTOET10	968492	6130	2 - 109	15882		H0264: 2		
HTOEV37	774641	6131	31 - 141	15883	Val-21 to Lys-33.	S0114: 1 and H0264: 1.		
HTOEV40	529822	6132	286 - 414	15884		H0264: 2		
HTOEV50	529820	6133	77 - 220	15885		H0264: 2		
HTOEV72	659494	6134	136 - 255	15886		H0264: 2		
HTOFA04	845519	6135	1 - 129	15887		H0087: 1 and H0264: 1.		
	869987	9604	158 - 289	19356				
	927327	9605	458 - 129	19357	Ala-1 to Lys-9, Lys-22 to Lys-28, Lys-37 to Asp-43.			
HTOFB55	723256	6136	110 - 256	15888		H0264: 2		
HTOFB73	742153	6137	3 - 164	15889		H0264: 2		
HTOFC70	811291	6138	65 - 355	15890		H0264: 2		
HTOFD10	968469	6139	2 - 133	15891	Ile-20 to Asp-32.	H0264: 2		
HTOFD31	529674	6140	2 - 76	15892		S0114: 1 and H0264: 1.		
HTOFD57	529673	6141	101 - 304	15893		H0264: 2		
HTOFO05	932662	6142	3 - 98	15894	Pro-5 to Leu-16.	H0083: 1 and H0264: 1.		
HTOFO41	529617	6143	34 - 111	15895	Tyr-3 to Leu-11, Arg-14 to Glu-19.	H0264: 2		
HTOFQ48	720880	6144	125 - 316	15896	Thr-12 to Asn-21, Thr-39 to Gln-45.	H0318: 1 and H0264: 1.		
HTOFT22	939903	6145	1870 - 2187	15897	Thr-11 to Gly-24, Pro-27 to Asn-37.	AR061: 6, AR089: 2 H0264: 2		

							Gln-44 to Glu-49, Arg-69 to Arg-84.			
	963302	9606	750 - 905	19358						
HTOFT34	527144	6146	106 - 270	15898						
HTOGA06	960554	6147	1 - 249	15899				AR089: 8, AR061: 5 H0264: 2 and L0367: 1.		
HTOGA25	529959	6148	37 - 156	15900				H0264: 2		
HTOGA35	751989	6149	185 - 337	15901			Ala-11 to Thr-17.	H0264: 2		
								L0750: 3, L0551: 2, L0748: 2, H0486: 1, L0455: 1, H0264: 1, S0002: 1, L0764: 1, L0791: 1 and L0740: 1.		
HTOGA51	530331	6150	6 - 122	15902			Glu-23 to Lys-29.	H0264: 1 and H0272: 1.		
HTOGB55	781591	6151	157 - 390	15903				H0264: 2		
HTOGB92	529810	6152	40 - 132	15904			Lys-18 to Glu-24.	H0264: 2		
HTOGC16	927835	6153	22 - 102	15905				H0264: 2		
HTOGC20	960094	6154	191 - 334	15906			Thr-1 to Gly-13; Pro-26 to Leu-31.	H0318: 1 and H0264: 1.		
HTOGD28	529806	6155	141 - 335	15907				H0264: 2		
HTOGD43	650846	6156	2 - 172	15908			His-7 to Trp-12, Arg-15 to Trp-20, Tyr-22 to Trp-29.	H0264: 1 and H0445: 1.		
HTOGD50	529805	6157	222 - 434	15909				H0264: 2 and L0766: 1.		
HTOGI75	869973	6158	101 - 307	15910			Pro-19 to Gly-24, Ser-41 to Ser-46.	H0264: 2		
HTOGI86	507294	6159	3 - 332	15911			His-1 to Cys-10.	H0264: 2		
HTOGR50	529824	6160	139 - 231	15912				H0264: 2		
HTOGR65	618316	6161	339 - 572	15913				L0749: 2, H0264: 1 and S0002: 1.		
	869971	9607	292 - 624	19359						
	869972	9608	236 - 364	19360						
HTOGU30	961776	6162	13 - 105	15914			Phe-14 to Thr-24.	H0650: 1 and H0264: 1.		
HTOHB03	924986	6163	2 - 193	15915				H0581: 1 and H0264: 1.		
HTOHB42	714073	6164	361 - 158	15916				H0341: 1 and H0264: 1.		
HTOHB66	966688	6165	559 - 768	15917			Pro-18 to Pro-27.	H0318: 4, L0748: 2, H0264: 1 and H0543: 1.		

HTOHC78	577745	6166	18 - 239	15918	Ser-1 to Pro-7, Ala-14 to Thr-25, Pro-38 to Pro-44, Val-62 to Gly-73.	H0264: 2	
HTOHC84	537370	6167	69 - 266	15919	Cys-50 to Gly-56.	H0264: 2	
HTOHD27	799676	6168	3 - 128	15920		H0264: 2	
HTOHE53	531172	6169	1 - 129	15921		S0114: 1 and H0264: 1.	
HTOHG55	537366	6170	133 - 252	15922		H0264: 2	
HTOHI60	740611	6171	110 - 193	15923		H0318: 1 and H0264: 1.	
HTOHL22	968308	6172	113 - 241	15924		H0264: 2	
HTOHL35	537364	6173	1 - 201	15925	Arg-8 to Val-18, Arg-30 to Cys-36.	AR061: 1, AR089: 0 H0264: 2	
HTOHM54	537363	6174	78 - 266	15926	Pro-6 to Pro-14.	H0264: 2	
HTOHN24	971728	6175	3 - 122	15927	Lys-26 to Arg-33.	H0264: 2	
HTOHN42	537362	6176	28 - 147	15928	Ser-11 to Leu-16, Leu-20 to Arg-25.	H0264: 2	
HTOHP13	530350	6177	4 - 417	15929	Pro-11 to Ala-17.	H0264: 2, H0457: 1, H0271: 17q21 1 and H0543: 1.	109270, 109270, 109270, 109270, 109270, 113705, 113705, 144200, 148065, 148066, 148066, 148067, 148067, 148069, 148080, 154275, 168610, 171190, 176705, 185800, 200350, 221820, 232200, 249000, 252920, 253250, 600119, 600119, 601363, 601844
HTOHS32	678071	6178	46 - 201	15930	Pro-20 to His-39, Pro-47 to Ser-52.	H0416: 1 and H0264: 1.	
HTOHS68	507136	6179	3 - 311	15931	Asp-7 to Lys-16.	H0264: 2	
HTOHU09	920734	6180	1 - 168	15932		H0264: 2 and S0116: 1.	
HTOHV29	527865	6181	2 - 151	15933	Pro-9 to Glu-14.	H0264: 2	

HTOHX74	507139	6182	1 - 246	15934	Lys-1 to Ala-11, Pro-26 to Lys-41.	H0264: 2	
HTOHZ61	537371	6183	274 - 405	15935	Asn-1 to Tyr-6.	H0264: 2	
HTOIA12	851032	6184	1 - 360	15936		H0457: 1 and H0264: 1.	
HTOIA68	584946	6185	2 - 139	15937	Leu-1 to Arg-8.	H0264: 2	
HTOIJ67	537354	6186	114 - 356	15938	Pro-24 to Asn-32, Ala-36 to Gln-43, Asp-48 to Ala-57, Pro-66 to Arg-71.	H0264: 2	
HTOIK06	954518	6187	34 - 210	15939		S0114: 1, H0318: 1 and H0264: 1.	
HTOIK08	959996	6188	238 - 483	15940	Pro-10 to Gln-17.	L0766: 2, H0306: 1 and H0264: 1.	
HTOIN17	537322	6189	1 - 276	15941	Gly-1 to Leu-6.	H0264: 2	
HTOIO29	506720	6190	63 - 230	15942		H0264: 2	
HTOIO36	537320	6191	92 - 244	15943	Leu-38 to Ser-43.	H0264: 2	
HTOIO79	537321	6192	1 - 174	15944	Gly-1 to Arg-9.	H0264: 2	
HTOIP32	869941	6193	207 - 470	15945		H0264: 2	
HTOIP53	557824	6194	122 - 289	15946		H0264: 2	
HTOIQ05	932440	6195	110 - 274	15947	Gly-2 to Lys-9, Asp-15 to Trp-20.	H0264: 2	
HTOIR12	537319	6196	229 - 80	15948		H0264: 2	
HTOIS27	485268	6197	282 - 413	15949	Gly-24 to Ser-29.	H0264: 1, H0543: 1 and H0423: 1.	
	934366	9609	188 - 292	19361	Ala-23 to Glu-28.		
HTOIT32	418666	6198	2 - 94	15950		H0271: 1 and H0264: 1.	
HTOIW02	920752	6199	1 - 243	15951	Ser-1 to Ser-11.	H0264: 2	
HTOIW40	669595	6200	113 - 271	15952		H0264: 1 and H0543: 1.	
HTOiy09	836003	6201	40 - 258	15953	Cys-1 to Glu-7, Ser-25 to Ser-32.	H0556: 1, H0264: 1 and H0422: 1.	
HTOIZ34	707039	6202	107 - 241	15954	Ser-6 to Gly-12, Arg-40 to Ala-45.	H0264: 1, H0625: 1, L0666: 1 and L0740: 1.	
HTOJA65	456824	6203	213 - 353	15955	Leu-1 to His-6, Pro-11 to Trp-16.	H0556: 2, H0265: 1 and H0264: 1.	
HTOJA83	574764	6204	50 - 250	15956	Gln-25 to Arg-30.	H0264: 2	



					Tyr-42 to Trp-50.			H0264: 2	
HTOJA96	968310	6205	27 - 107	15957	Gly-10 to Gly-15.			H0264: 2	
HTOJB59	574761	6206	176 - 316	15958	Ser-8 to Met-15,			H0445: 2 and H0264: 1.	
HTOJB67	726577	6207	245 - 466	15959	Gly-24 to Pro-29, Lys-63 to Ser-74.				
HTOJF65	715820	6208	89 - 262	15960				S0114: 1 and H0264: 1.	
HTOJG08	869926	6209	2 - 166	15961	Arg-43 to Trp-48.			H0264: 2	
HTOJI24	766963	6210	2 - 391	15962				H0341: 1, H0264: 1 and H0543: 1.	
HTOJJ17	574735	6211	18 - 155	15963				H0264: 2, L0748: 1 and L0749: 1.	
HTOJK48	574348	6212	29 - 217	15964				H0264: 2	
HTOJK79	531320	6213	3 - 245	15965				S0114: 1 and H0264: 1.	
HTOJK84	952741	6214	7 - 201	15966	Gly-32 to Ile-37.			H0264: 1 and H0445: 1.	
HTOJL55	825165	6215	8 - 139	15967				S0114: 1 and H0264: 1.	
HTOJL71	574529	6216	23 - 133	15968				H0264: 2	
HTOJM06	936089	6217	396 - 644	15969	Ser-35 to Ala-48, Ser-73 to Gly-82.			H0264: 1, S0428: 1 and S0053: 1.	
HTOJM70	799689	6218	1 - 159	15970				H0264: 3	
HTOJS81	711021	6219	1 - 195	15971				H0556: 1 and H0264: 1.	
HTOJT90	921016	6220	148 - 369	15972	Leu-1 to Thr-6.			H0341: 2, H0264: 2, L0471: 1 and H0542: 1.	
HTSAA22	415775	6221	2 - 181	15973				H0402: 1 and H0087: 1.	
HTSEU58	521995	6222	86 - 271	15974	Trp-10 to Lys-19, Gln-21 to Thr-48.			H0318: 1, H0087: 1 and L0747: 1.	
HTSFZ77	935620	6223	105 - 266	15975	Pro-29 to Asn-34, Glu-43 to Lys-49.			H0402: 3 and H0087: 1.	
HTSGB93	526625	6224	89 - 277	15976				H0087: 4 and L0752: 1.	121700, 122000, 188040
HTSGM65	576062	6225	151 - 309	15977				H0087: 2	
HTSGW24	971724	6226	295 - 609	15978	Ser-35 to Trp-44.			H0087: 1 and S0052: 1.	
HTSHA61	960474	6227	282 - 97	15979	Ala-47 to Phe-52.			H0087: 1 and H0116: 1.	
HTSHD86	773726	6228	182 - 499	15980				H0063: 1 and H0087: 1.	
HTSHF47	720403	6229	99 - 326	15981	Glu-1 to Pro-16.			H0486: 1 and H0087: 1.	

HTSHM38	972248	6230	2 - 604	15982	Asn-6 to Ser-15, Pro-29 to Arg-42, Pro-91 to Gln-108, Lys-123 to Arg-133, Ile-157 to Phe-168, Gln-171 to Val-178, Gly-185 to Pro-197.	AR051: 26, AR054: 20, AR050: 18, AR089: 6, AR061: 2 H0087: 1 and H0264: 1.		
HTUAA40	522671	6231	190 - 330	15983		H0185: 1 and S0052: 1.		
HTUAA86	522076	6232	19 - 96	15984	Val-1 to Thr-11.	H0185: 2 and L0764: 1.		
HTWAB64	522058	6233	2 - 151	15985	Ile-1 to Ile-6.	H0187: 1 and H0576: 1.		
HTWAH16	880725	6234	139 - 243	15986		S0114: 1 and H0187: 1.		
HTWAH51	614968	6235	60 - 167	15987	Lys-16 to Lys-21.	H0187: 1 and H0576: 1.		
HTWAM50	753217	6236	2 - 232	15988		H0341: 1 and H0187: 1.		
HTWBD74	716756	6237	3 - 173	15989	Pro-1 to Gly-10, Pro-17 to Phe-24, Thr-33 to Val-45.	S0002: 1 and H0436: 1.		
HTWBE77	781306	6238	531 - 719	15990		H0436: 1, L0731: 1 and H0445: 1.		
HTWBF61	579041	6239	62 - 187	15991		S0114: 1 and H0436: 1.		
HTWBF65	576623	6240	114 - 605	15992	Gln-59 to Leu-65.	H0341: 1 and H0436: 1.		
HTWBF82	854019	6241	2 - 217	15993		H0436: 2		
HTWBG40	711271	6242	42 - 329	15994	Cys-7 to Ser-13.	H0436: 1, L0748: 1 and H0422: 1.		
HTWBH73	708331	6243	32 - 211	15995	Ser-6 to Asp-12.	H0436: 2		
HTWBH15	842014	6244	3 - 314	15996	Asp-1 to His-6.	L0596: 2, H0436: 1, H0445: 1 and H0543: 1.		
HTWBI71	935647	6245	115 - 228	15997	Thr-6 to Gln-12, Glu-16 to Cys-25, Pro-28 to Leu-34.	H0436: 2		
HTWBL88	784364	6246	2 - 178	15998	His-21 to Glu-27, Gly-49 to Lys-59.	H0402: 1 and H0436: 1.		
HTWBN85	577510	6247	1 - 81	15999		S0114: 1 and H0436: 1.		
HTWBO55	732182	6248	385 - 525	16000		H0436: 2 and L0439: 2.		
HTWBR04	787303	6249	3 - 317	16001		H0581: 1 and H0436: 1.		
HTWBZ01	578678	6250	1 - 102	16002	Arg-12 to Ser-33.	H0436: 2		
HTWCA19	582498	6251	131 - 436	16003		S0002: 1 and H0436: 1.		

HTWCA76	770109	6252	3 - 149	16004	Phe-40 to Phe-45.		S0218: 1 and H0436: 1.		
HTWCD27	658018	6253	1 - 186	16005	His-4 to Glu-27.		H0318: 1 and H0436: 1.		
HTWCD40	670812	6254	166 - 348	16006			H0436: 2		
HTWCE72	575962	6255	150 - 272	16007	Gly-3 to Phe-11, Pro-13 to Lys-38.		H0436: 2		
HTWCF06	935641	6256	195 - 371	16008	Glu-17 to Ala-22.		H0306: 1 and H0436: 1.		
HTWCF25	924008	6257	1 - 219	16009	Pro-18 to Lys-25.		H0436: 4		
HTWCF94	747197	6258	132 - 347	16010	Ser-1 to Pro-7, Pro-45 to Gly-54, His-58 to Ser-67.		H0436: 2		
HTWCG45	548176	6259	1 - 165	16011	Lys-17 to Thr-26.		S0278: 1 and H0436: 1.	6q14	136550, 203310, 269920, 602772
HTWCG65	869547	6260	115 - 312	16012	Lys-31 to Lys-47.		AR089: 1, AR061: 0 H0650: 1 and H0436: 1.		
HTWCG69	575950	6261	3 - 92	16013	Ala-9 to Ala-17.		S0053: 1 and H0436: 1.		
HTWCI42	713022	6262	1 - 162	16014			H0436: 2		
HTWCK07	953482	6263	204 - 425	16015			S0114: 1 and H0436: 1.		
HTWCL29	740327	6264	2 - 79	16016	Ala-3 to Lys-13.		H0521: 1 and H0436: 1.		
HTWCM36	971129	6265	156 - 380	16017	Ser-2 to Ser-7.		H0305: 2, L0766: 2, H0436: 2, L0777: 2 and L0748: 1.		
HTWCM56	662321	6266	352 - 525	16018	Asn-1 to Glu-12.		S0142: 1 and H0436: 1.		
HTWCN33	577494	6267	230 - 475	16019	Ser-15 to Lys-20.		H0265: 1 and H0436: 1.		
HTWCN83	573580	6268	2 - 280	16020			H0305: 5 and H0436: 1.		
HTWCR25	575959	6269	138 - 338	16021			H0436: 2		
HTWCS11	967190	6270	94 - 204	16022			H0436: 2		
HTWCT42	713870	6271	1 - 150	16023			H0436: 2		
HTWCT61	575975	6272	86 - 232	16024			H0402: 2 and H0436: 1.		
HTWCX32	669745	6273	2 - 97	16025			H0436: 2, L0021: 1 and L0766: 1.		
HTWCY05	920337	6274	1 - 150	16026			H0436: 2		
HTWCY69	869553	6275	100 - 369	16027	Glu-26 to Lys-34.		H0436: 2		
HTWDB72	835624	6276	197 - 376	16028	Tyr-40 to Asp-45, Asn-52 to Ser-57.		H0436: 2		
HTWDF82	921697	6277	3 - 233	16029	Phe-10 to Tyr-22, Arg-45 to Gly-57.		H0179: 1 and H0436: 1.		

HTWDH14	669560	6278	3 - 338	16030	Asp-68 to Asn-74. Ala-7 to Ser-12, Tyr-42 to Lys-50, Asn-62 to Ile-67, Thr-100 to Val-105.	H0521: 2, S0114: 1, L0654: 1, H0522: 1 and H0436: 1.		
HTWDH75	767368	6279	138 - 302	16031		H0556: 1 and H0436: 1.		
HTWDM43	715352	6280	147 - 314	16032	Pro-43 to Ser-51.	S0474: 2, H0436: 1, L0749: 1 and H0542: 1.		
HTWDN01	916680	6281	75 - 221	16033	Glu-37 to Ala-42.	H0436: 2		
HTWDN17	664115	6282	1 - 345	16034	Asn-50 to Gly-55, Gln-69 to Leu-74.	H0436: 1 and H0543: 1.		
HTWDQ60	575939	6283	1 - 105	16035		H0436: 2		
HTWDS35	697825	6284	3 - 374	16036	Glu-15 to Tyr-24, Lys-29 to Lys-34, Leu-38 to His-43, Arg-47 to Glu-57, Ser-65 to Gln-78, Arg-86 to Ala-91, Leu-95 to Gln-100, Gln-107 to Glu-115.	L0803: 1, H0521: 1 and H0436: 1.		
HTWEA61	965453	6285	3 - 368	16037	Glu-24 to Thr-30, Ser-39 to Pro-44.	H0436: 2		
HTWEC63	735003	6286	2 - 136	16038	Gln-1 to Glu-21.	S0114: 1 and H0436: 1.		
HTWED17	663714	6287	257 - 370	16039		S0218: 1, H0370: 1 and H0436: 1.		
HTWED28	686598	6288	269 - 400	16040	Arg-11 to Leu-19.	H0581: 1 and H0436: 1.		
HTWEG12	970538	6289	3 - 167	16041	Arg-39 to Gly-49.	H0436: 2		
HTWEH16	661860	6290	3 - 227	16042	Ser-42 to Ser-52, His-60 to Arg-70.	H0341: 1 and H0436: 1.		
HTWEJ14	792648	6291	171 - 371	16043	Phe-11 to Cys-17.	H0436: 2		
HTWEM37	449136	6292	3 - 260	16044	Pro-26 to Pro-36, Phe-54 to Gly-65.	H0264: 1 and H0436: 1.		
HTWEM63	745024	6293	346 - 77	16045		H0436: 1 and H0423: 1.		
HTWER78	836799	6294	16 - 378	16046	Arg-74 to Tyr-80.	H0486: 1 and H0436: 1.		
HTWES75	767257	6295	88 - 180	16047		H0436: 2		
HTWEU29	711673	6296	3 - 224	16048	Arg-56 to Ser-65.	L0439: 2, T0041: 1, H0436: 1q21-q22	104770, 107670,	

							1 and L0748: 1.		110700, 135940, 145001, 146790, 152445, 152445, 159001, 159440, 159440, 159440, 174000, 179755, 182860, 182860, 182860, 186780, 191030, 191315, 230800, 230800, 266200, 600897, 600923, 601105, 601412, 601652, 602491
HTWEX09	625458	6297	3 - 182	16049		Glu-1 to Ala-6.	H0436: 1 and H0444: 1.		
HTWEX18	666305	6298	210 - 353	16050			H0436: 1 and H0423: 1.		
HTWEY30	918641	6299	661 - 434	16051		Ser-18 to Phe-27, Ser-30 to Ser-40, Thr-50 to Lys-55.	H0436: 2 and L0751: 1.		
HTWFB37	708908	6300	3 - 164	16052		Thr-45 to Gly-53.	H0306: 1 and H0436: 1.		
HTWFB75	767253	6301	85 - 243	16053		Asp-6 to Gly-12, Gln-23 to Gln-29, Arg-37 to Gly-49.	S0116: 1, H0421: 1 and H0436: 1.		
HTWFF46	869499	6302	2 - 205	16054		Lys-25 to Trp-31, Arg-43 to Pro-53, Pro-59 to Lys-64.	H0436: 5		
HTWFG44	935270	6303	224 - 478	16055		Glu-31 to Gly-38, Ser-45 to Arg-50, Gly-56 to Ile-62, Pro-70 to Cys-81.	H0457: 1 and H0436: 1.		
HTWFI19	668579	6304	216 - 332	16056		Pro-13 to Val-18, Pro-20 to Trp-29.	H0436: 4		
HTWFK15	869498	6305	139 - 282	16057			H0436: 2		
HTWFM20	917272	6306	195 - 536	16058		Pro-77 to Thr-86.	S0114: 1, H0063: 1 and H0436: 1.		
HTWFN64	757593	6307	105 - 278	16059			H0402: 1 and H0436: 1.		

HTWFO63	658473	6308	75 - 131	16060		H0542: 2, H0402: 1, H0318: 1, H0436: 1, L0753: 1 and L0758: 1.	
HTWFP14	869489	6309	3 - 209	16061	His-9 to Gly-14.	H0436: 2	
HTWFP33	916562	6310	79 - 309	16062	Arg-27 to Leu-33, Val-51 to Asp-56, Arg-64 to Gly-72.	H0402: 1, H0264: 1 and H0436: 1.	
HTWFP53	721768	6311	272 - 400	16063	Pro-1 to Gly-6.	H0402: 1 and H0436: 1.	
HTWFR17	663697	6312	20 - 253	16064		H0264: 1 and H0436: 1.	
HTWJA24	954881	6313	281 - 538	16065		H0576: 2, S0002: 1 and L0599: 1.	
HTWJA59	812705	6314	130 - 279	16066	Gly-30 to Gln-37.	H0576: 2	
HTWJA83	780990	6315	70 - 216	16067	His-25 to Asn-35.	H0576: 2	
HTWJA95	796259	6316	139 - 258	16068	Met-6 to Asn-11, Pro-34 to Gln-40.	H0576: 2	
HTWJC43	715081	6317	49 - 207	16069	Ser-11 to Gly-20.	H0583: 1 and H0576: 1.	
HTWJC75	767134	6318	3 - 77	16070	Glu-3 to Glu-13, Lys-15 to Asn-22.	H0576: 2	2
HTWJC85	757125	6319	200 - 334	16071	Arg-27 to Tyr-32.	H0556: 1 and H0576: 1.	
HTWJF59	693116	6320	197 - 361	16072	Met-1 to Gly-25, Tyr-27 to Met-39.	H0576: 1 and H0444: 1.	
HTWJF66	576164	6321	204 - 443	16073	Gln-5 to Phe-10.	H0255: 1, H0576: 1 and H0423: 1.	
HTWJF95	745182	6322	78 - 248	16074		H0402: 1, H0576: 1 and H0423: 1.	
HTWJH57	812698	6323	68 - 265	16075	Trp-4 to Ser-9, Pro-54 to Pro-61.	H0576: 1 and H0445: 1.	
HTWJL91	789487	6324	243 - 368	16076		S0114: 1, H0576: 1 and L0750: 1.	
HTWJM05	850055	6325	68 - 250	16077		H0402: 2 and H0576: 1.	
HTWJO45	717592	6326	43 - 192	16078	Thr-25 to Thr-32, Arg-43 to Lys-49.	H0576: 2 and L0776: 1.	
HTWJQ19	668466	6327	253 - 342	16079	Pro-23 to Val-29.	H0254: 1, H0576: 1 and H0422: 1.	
HTWJY82	698335	6328	1 - 93	16080		S0114: 1 and H0576: 1.	
HTWKG30	691882	6329	21 - 131	16081	Pro-1 to Trp-6.	H0589: 1 and H0576: 1.	

HTWKNS3	728014	6330	3 - 269	16082	Lys-12 to Met-24, Pro-43 to Asp-50, Glu-63 to Ser-68, Pro-73 to Ser-88.	H0576: 2		
HTWKT61	709451	6331	44 - 118	16083		H0576: 2		
HTWKX27	574092	6332	29 - 265	16084	Leu-16 to Val-21.	S0053: 1, H0576: 1 and L0748: 1.		
HTWKZ04	614980	6333	109 - 294	16085	Phe-5 to Ile-11.	S0426: 1 and H0576: 1.		
HTWKZ17	529749	6334	234 - 365	16086		H0265: 2 and H0576: 1.		
HTWLD37	841951	6335	89 - 400	16087		S0053: 1 and H0576: 1.		
HTWLG13	656772	6336	2 - 160	16088	Gln-43 to Gly-53.	H0255: 1 and H0576: 1.		
HTWLG76	795694	6337	267 - 539	16089		S0182: 1 and H0576: 1.		
HTXAK52	869460	6338	7 - 264	16090	Arg-1 to Gly-14.	H0265: 1 and H0318: 1.		
HTXAK78	530137	6339	174 - 347	16091	Leu-30 to Thr-35.	H0265: 2		
HTXAO23	676386	6340	15 - 92	16092		H0265: 1 and S0114: 1.		
HTXBF75	963029	6341	98 - 277	16093	Ser-23 to Gln-40.	H0265: 1 and H0556: 1.		
HTXBH24	418592	6342	2 - 151	16094		H0265: 2		
HTXBJ36	529759	6343	17 - 232	16095	Ser-13 to Leu-19.	H0265: 2		
HTXBJ92	706472	6344	227 - 361	16096		L0749: 2, H0265: 1, H0402: 1 and L0667: 1.		
HTXBK75	869401	6345	1 - 123	16097		H0265: 2		
HTXBN83	781443	6346	3 - 101	16098		H0265: 1 and S0218: 1.		
HTXBO11	967750	6347	176 - 400	16099	Lys-25 to Pro-31.	H0265: 1 and H0421: 1.		
HTXBO21	869461	6348	2 - 193	16100		H0265: 1 and H0542: 1.		
HTXBO51	970855	6349	146 - 592	16101	Leu-1 to Gln-19, Ala-84 to Gly-99, Pro-128 to Arg-142.	L0777: 2, H0265: 1, H0556: 1, H0255: 1, L0662: 1, L0375: 1, L0378: 1 and L0519: 1.		
HTXBX49	529662	6350	91 - 195	16102		H0265: 2		
HTXBX77	529661	6351	120 - 353	16103	Ser-59 to Gln-64.	H0265: 2		
HTXCB32	529615	6352	199 - 402	16104	Pro-21 to Lys-32.	H0265: 2 and L0596: 1.		
HTXCL28	952022	6353	56 - 175	16105		H0265: 2 and H0556: 1.		
HTXCU76	765655	6354	188 - 589	16106	Cys-122 to His-131.	H0265: 1, H0556: 1, H0457: 1 and L0766: 1.		
HTXCW16	522365	6355	50 - 265	16107	Val-10 to Cys-17.	H0265: 2		

HTXCW27	491257	6356	378 - 166	16108			H0265: 1 and H0522: 1.		
HTXCX05	932476	6357	148 - 303	16109			H0265: 1 and H0556: 1.		
HTXCY16	537413	6358	1 - 231	16110		Arg-12 to Gly-21, Ala-23 to His-32, Ala-59 to Gln-71.	H0265: 2		
HTXCY84	924996	6359	2 - 241	16111			H0265: 2		
HTXCZ16	537485	6360	213 - 416	16112		Glu-14 to Asp-19.	H0265: 2		
HTXDG37	968886	6361	71 - 466	16113		Arg-5 to Gly-13.	AR051: 14, AR050: 13 H0265: 1, L0637: 1, L0766: 1 and H0521: 1.		
HTXDI51	537474	6362	86 - 235	16114		Ser-28 to Val-34, Leu-43 to Arg-48.	H0265: 2		
HTXDO50	537487	6363	120 - 314	16115			H0265: 2		
HTXDQ25	869369	6364	1 - 306	16116		Ser-4 to Ser-15.	H0265: 1 and H0556: 1.		
HTXDS80	869435	6365	2 - 82	16117		Pro-1 to Lys-9.	H0265: 2		
HTXDW14	966588	6366	1145 - 432	16118		Tyr-17 to Asp-22, Pro-75 to Ser-81.	H0265: 1, H0583: 1 and L0741: 1.		
HTXDX61	784768	6367	1 - 423	16119		Arg-1 to Asp-16.	AR061: 6, AR089: 3 H0265: 1, H0264: 1, H0488: 1 and H0543: 1.		
HTXDX82	931113	6368	307 - 513	16120		Leu-20 to His-31.	H0265: 1 and H0556: 1.		
HTXDZ01	921486	6369	62 - 223	16121			H0265: 2 and S0134: 1.		
HTXEA41	974530	6370	198 - 422	16122		Thr-1 to Trp-10, Phe-18 to Arg-25.	H0265: 2		
HTXEA62	812833	6371	22 - 294	16123			H0265: 1 and S0428: 1.		
HTXEC53	529755	6372	118 - 369	16124		Thr-1 to Asn-7, Phe-21 to Ser-27.	H0265: 2 and L0589: 1.		
HTXEE70	537405	6373	2 - 157	16125		Pro-26 to Pro-37.	H0265: 1 and H0264: 1.		
HTXEM54	764221	6374	109 - 261	16126		Arg-4 to Pro-11, Thr-45 to Glu-50.	H0265: 2	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777
HTXEP20	537483	6375	3 - 194	16127		Gly-1 to Gln-9, Trp-11 to Arg-21, Gly-26 to Lys-32, Ala-38 to Phe-50.	H0265: 2		



HTXEP49	722181	6376	191 - 400	16128		L0589: 2, H0265: 1 and H0090: 1.	
HTXEP76	527697	6377	114 - 365	16129		H0265: 1, H0305: 1 and S0426: 1.	
HTXEQ05	932471	6378	65 - 235	16130		H0265: 2 and H0305: 1.	
HTXET61	537471	6379	3 - 191	16131		H0265: 2	
HTXET67	783784	6380	68 - 211	16132		H0265: 1 and H0556: 1.	
HTXET75	664468	6381	1 - 174	16133		H0265: 1 and S0053: 1.	
HTXEW14	932437	6382	37 - 219	16134	Lys-5 to Ala-11.	H0265: 2	
HTXFB03	924995	6383	176 - 316	16135	Pro-15 to Gly-32.	H0265: 2, S0134: 1, S0474: 1, L0662: 1, H0576: 1 and L0599: 1.	
HTXFB78	869408	6384	3 - 263	16136	Pro-34 to Phe-40.	H0265: 1 and H0556: 1.	
HTXFB95	537399	6385	3 - 332	16137	Trp-21 to Gln-26, Thr-37 to Ser-43, Glu-78 to Cys-84.	H0265: 2	
HTXFC07	918644	6386	254 - 430	16138	Gln-27 to Arg-32.	H0265: 1, H0556: 1 and L0749: 1.	
HTXFD75	537401	6387	94 - 231	16139	Ser-23 to Thr-28.	H0265: 2	
HTXFE47	790855	6388	189 - 464	16140		H0556: 20, H0265: 8, H0638: 1, H0660: 1, H0521: 1 and L0749: 1.	
HTXFF04	615593	6389	399 - 653	16141	Lys-18 to Pro-26.	H0265: 1, H0318: 1 and L0748: 1.	
HTXFF66	973429	6390	91 - 438	16142	Pro-27 to Ser-32, Glu-41 to Ser-47, His-85 to Trp-90, Glu-92 to Val-111.	H0265: 2 and H0556: 1.	
HTXFF91	780083	6391	145 - 258	16143		H0265: 2	
HTXFI58	557838	6392	2 - 151	16144	Thr-8 to Trp-19, Glu-24 to Tyr-29.	H0265: 2	
HTXFK45	523385	6393	108 - 218	16145	Tyr-12 to Tyr-24.	H0265: 2	
HTXFN69	869397	6394	3 - 476	16146	Val-7 to Phe-14, Glu-32 to Glu-39.	H0265: 1, H0556: 1 and H0607: 1.	
HTXFO65	926534	6395	442 - 549	16147	Asp-9 to Lys-14.	H0265: 1 and H0370: 1.	
HTXFS95	796025	6396	23 - 325	16148	Pro-22 to Val-30.	H0265: 1, H0556: 1 and	

HTXFT03	924952	6397	2 - 100	16149		S0216: 1. H0556: 7, H0265: 1 and L0748: 1.		
HTXFT60	923937	6398	2 - 244	16150	Ala-1 to Cys-9, Cys-13 to Gly-18.	H0265: 1 and H0556: 1.		
HTXFTV22	537491	6399	167 - 322	16151		H0265: 2		
HTXGB20	933878	6400	1 - 93	16152		H0265: 1 and H0556: 1.		
HTXGB65	577711	6401	182 - 448	16153	Met-26 to Pro-39.	H0305: 2, H0265: 1, H0589: 1 and L0592: 1.		
HTXGD30	529724	6402	63 - 185	16154	Gly-5 to Leu-12.	H0265: 2 and H0556: 1.		
HTXGL73	529745	6403	15 - 242	16155		H0265: 2 and H0556: 2.		
HTXGN76	527016	6404	246 - 500	16156		H0265: 2 and H0318: 1.		
HTXGO74	869391	6405	1 - 84	16157		H0265: 2		
HTXGQ37	575461	6406	49 - 306	16158	Gly-40 to Lys-46.	H0265: 1 and S0114: 1.		
HTXHA16	661818	6407	46 - 351	16159	Gly-17 to Gln-23.	H0265: 2		
HTXHD24	727469	6408	53 - 274	16160		H0265: 2 and H0556: 1.		
HTXJA66	698461	6409	26 - 238	16161	Lys-41 to Leu-51.	H0265: 1 and H0556: 1.		
HTXJB15	660059	6410	131 - 277	16162		H0556: 2		
HTXJB35	707768	6411	43 - 348	16163	Gly-60 to Gly-67.	H0556: 1, H0625: 1, L0603: 1 and L0697: 1.		
HTXJC65	666565	6412	1 - 177	16164	Thr-11 to Tyr-19, Phe-32 to Phe-38.	H0556: 1, L0520: 1, L0794: 1 and H0422: 1.		
HTXJE76	745813	6413	166 - 318	16165		H0265: 1 and H0556: 1.		
HTXJF30	692607	6414	106 - 456	16166		H0556: 1, H0421: 1 and L0766: 1.		
HTXJG06	933230	6415	161 - 379	16167	Lys-1 to Gly-20, Leu-31 to Phe-36, Met-39 to Gly-48, Gln-57 to Arg-67.	H0543: 2, H0265: 1, H0556: 1 and H0423: 1.		
HTXJG19	974010	6416	213 - 335	16168		H0265: 1 and H0556: 1.		
HTXJG23	675315	6417	265 - 414	16169	Ser-24 to Lys-31, Val-45 to Ser-50.	H0556: 3		
HTXJG53	752160	6418	2 - 307	16170	Gly-19 to Gly-24, Ser-75 to Gly-83.	L0742: 2, H0556: 1, H0255: 1 and L0754: 1.		
HTXJH73	582143	6419	152 - 304	16171	Val-37 to Glu-42.	H0265: 1 and H0556: 1.		

HTXJI68	912611	6420	1 - 297	16172	Ile-2 to Cys-14, Asp-38 to Leu-43.	H0556: 2		
HTXJJ55	959169	6421	61 - 288	16173		H0556: 2		
HTXJK23	675782	6422	77 - 340	16174	Pro-7 to Pro-14, Pro-55 to Ser-61, Gly-70 to Asp-76.	H0556: 1 and S0002: 1.		
HTXJL01	916254	6423	116 - 334	16175		S0052: 3, H0556: 1 and L0777: 1.		
HTXJL02	919691	6424	259 - 483	16176		H0556: 1, H0650: 1 and L0759: 1.		
HTXJM73	783572	6425	1 - 138	16177	Gly-3 to Pro-11.	H0556: 2		
HTXJN04	566887	6426	298 - 684	16178	Ser-41 to Ser-49, Gly-77 to Arg-83, Arg-91 to Arg-96.	AR051: 46, AR050: 46, AR054: 28 H0556: 2 and H0265: 1.		
HTXJN68	752940	6427	79 - 288	16179	Gln-13 to Thr-18.	H0556: 1 and S0002: 1.		
HTXJO34	703973	6428	82 - 225	16180	Arg-8 to Asp-17.	H0265: 1 and H0556: 1.		
HTXJO61	663153	6429	2 - 361	16181	Pro-20 to Arg-28.	H0556: 2		
HTXJO85	869123	6430	24 - 341	16182	Arg-52 to Ser-57, Gly-67 to Cys-78.	H0556: 2 and L0599: 1.		
HTXJP28	974315	6431	35 - 355	16183		H0265: 1, H0556: 1 and H0635: 1.		
HTXJQ73	719077	6432	373 - 513	16184	Ile-7 to Ser-12.	H0556: 1 and S0052: 1.		
HTXJR67	739586	6433	3 - 182	16185		H0265: 1 and H0556: 1.		
HTXJS64	746481	6434	430 - 570	16186	Gln-5 to Arg-12, Arg-16 to Cys-27.	H0556: 1, H0581: 1 and H0445: 1.		
HTXJV49	867083	6435	235 - 726	16187	Leu-21 to Glu-32, Gly-39 to Ser-63.	H0265: 1 and H0556: 1.		
HTXJW56	859854	6436	2 - 295	16188	Lys-1 to Thr-10.	H0556: 1 and S0216: 1.		
HTXJY51	872233	6437	8 - 229	16189	Lys-1 to His-7, Cys-37 to Arg-43.	H0556: 1, S0052: 1 and H0521: 1.		
HTXKB42	841986	6438	135 - 326	16190	Lys-19 to Thr-30.	H0556: 2		
HTXKC23	529756	6439	90 - 233	16191		H0556: 4, H0265: 2 and L0601: 1.		
HTXKD62	743435	6440	1 - 285	16192	Pro-10 to Lys-16, Asn-22 to Pro-33.	H0265: 1 and H0556: 1.		
HTXKH47	720186	6441	202 - 330	16193		H0556: 2		

HTXKJ93	796245	6442	1 - 264	16194	Cys-9 to Gly-14.	H0265: 1, H0556: 1 and L0748: 1.	12	
HTXKJ55	671285	6443	121 - 315	16195	His-2 to His-7.	H0265: 1, H0556: 1 and L0543: 1.		
HTXKJ58	574788	6444	1 - 486	16196	Arg-1 to Leu-11, Ser-54 to Val-59, Gly-61 to Tyr-67, Pro-76 to Pro-94, Glu-99 to Ala-104.	H0271: 7, H0556: 1 and H0416: 1.		
HTXKJ89	767234	6445	203 - 385	16197	Thr-7 to Trp-15, Pro-19 to Ile-25, Gly-42 to Val-47.	H0556: 2		
HTXKJ95	795788	6446	43 - 234	16198	Pro-42 to Arg-47.	H0556: 2		
HTXKK62	751050	6447	3 - 347	16199		H0556: 1, S0278: 1, L0805: 1 and H0422: 1.	12q22	147440, 201470, 235800, 273300
HTXKM25	664886	6448	2 - 175	16200	Glu-1 to Trp-13, His-36 to Arg-41.	H0265: 1 and H0556: 1.		
HTXKM84	782951	6449	31 - 216	16201		H0265: 1 and H0556: 1.		
HTXKN90	787551	6450	190 - 309	16202		H0556: 3		
HTXKP42	713631	6451	321 - 452	16203	Lys-5 to Asn-11.	L0439: 4 and H0556: 2.		
HTXKQ25	934801	6452	137 - 364	16204	Glu-22 to His-37, Phe-67 to Arg-76.	H0556: 1, S0218: 1 and L0754: 1.		
HTXKQ55	947789	6453	3 - 305	16205	Asp-21 to Lys-26.	AR061: 2, AR089: 2 H0265: 1 and H0556: 1.	13q12	121011, 121011, 129500, 253700, 601885, 602221
HTXKS02	919676	6454	84 - 293	16206		H0556: 2		
HTXKU69	754404	6455	42 - 410	16207	Arg-7 to Ala-19.	H0556: 2 and L0757: 1.		
HTXKV16	869348	6456	221 - 376	16208	Arg-1 to Thr-10, Met-25 to Asp-39.	H0556: 2		
HTXKV38	918567	6457	7 - 192	16209		H0556: 3 and H0445: 1.		
HTXKZ89	786409	6458	186 - 305	16210		H0063: 2 and H0556: 1.		
HTXLA63	917316	6459	140 - 409	16211	Leu-1 to Ala-6, Ser-48 to Lys-53.	H0556: 1, S0114: 1 and S0116: 1.		
HTXLD06	934555	6460	243 - 491	16212	Tyr-37 to Gly-43, Arg-45 to Val-52, Lys-63 to Gly-70.	H0556: 2 and S0052: 1.		

HTXLD68	752484	6461	3 - 272	16213	His-7 to Gly-17, Glu-23 to Ile-31, Ala-38 to Phe-43.	H0265: 1, H0556: 1 and H0436: 1.		
HTXLE37	790392	6462	22 - 228	16214		H0265: 1, H0556: 1 and L0545: 1.		
HTXLE56	861983	6463	350 - 535	16215	Lys-14 to Ser-19, Gln-36 to Arg-43.	H0556: 1, H0300: 1 and H0179: 1.		
HTXLE75	766798	6464	404 - 670	16216	Thr-1 to Lys-10, Glu-36 to Cys-50.	H0556: 1, H0264: 1, L0804: 1 and H0445: 1.		
HTXLE79	774125	6465	76 - 420	16217	Trp-29 to Arg-35.	H0265: 1 and H0556: 1.		
HTXLF08	958421	6466	3 - 119	16218	Ala-6 to Arg-11.	H0556: 1, L0665: 1, L0750: 1 and H0445: 1.		
HTXLG57	790610	6467	1 - 306	16219	Arg-28 to Gln-35, Thr-44 to Lys-51, Lys-55 to Gly-61.	H0556: 1 and H0090: 1.		
HTXLG64	974598	6468	392 - 667	16220		H0265: 2 and H0556: 1.		
HTXLH60	869336	6469	275 - 421	16221		H0556: 2		
HTXLI65	974018	6470	277 - 456	16222		H0556: 2 and H0265: 1.		
HTXLI91	787577	6471	178 - 381	16223	Gln-29 to Gln-35, Ser-58 to Gln-67.	H0556: 2		
HTXLJ70	756679	6472	401 - 631	16224	Arg-36 to Ala-42.	H0556: 1 and H0271: 1.		
HTXLK35	840283	6473	249 - 455	16225		L0766: 2, H0556: 1, H0656: 1, H0255: 1, L0740: 1, L0749: 1, H0444: 1 and L0592: 1.		
HTXLK95	795355	6474	161 - 286	16226	Arg-1 to Ser-15.	H0265: 1 and H0556: 1.		
HTXLL78	773071	6475	1 - 183	16227	Thr-24 to Gln-34.	H0556: 2		
HTXLL89	786475	6476	114 - 287	16228	Pro-41 to Thr-46.	H0556: 3 and H0265: 1.		
HTXLN72	951958	6477	3 - 158	16229		H0556: 3		
HTXLO02	918658	6478	126 - 356	16230		H0556: 2 and L0748: 1.		
HTXLO14	869332	6479	167 - 358	16231		H0556: 2		
HTXLP15	869202	6480	206 - 466	16232	Glu-27 to Met-32.	H0556: 4		
HTXLP18	973431	6481	67 - 279	16233	Glu-14 to His-21, His-36 to Lys-45.	H0556: 5 and H0265: 1.		
HTXLQ28	869331	6482	1 - 267	16234	Ser-8 to Asp-13, Gly-26 to Trp-32,	H0556: 2 and H0265: 1.		

HTXLT33	919761	6483	1 - 147	16235	Arg-44 to Leu-49, Ser-18 to Asp-24,	H0556: 1 and H0543: 1.	
HTXLU64	783411	6484	63 - 266	16236	Gln-9 to Phe-14, Asn-27 to Asn-32.	H0265: 1 and H0556: 1.	
HTXLU82	779215	6485	1 - 297	16237	Pro-33 to Ser-43, Glu-59 to Phe-64.	H0265: 1 and H0556: 1.	
HTXLV39	972762	6486	210 - 482	16238		H0556: 2 and S0114: 1.	
HTXLY02	866819	6487	185 - 379	16239	Pro-13 to Arg-18, Leu-39 to Asn-44, Ser-58 to Tyr-63.	H0556: 1 and S0114: 1.	
HTXMC82	779198	6488	181 - 525	16240	Gln-31 to Phe-36.	H0556: 2 and H0265: 1.	
HTXMH13	928105	6489	319 - 480	16241	Ala-1 to His-7.	H0265: 1 and H0556: 1.	
HTXMH80	775487	6490	528 - 803	16242		H0556: 1 and H0069: 1.	
HTXMI18	921101	6491	82 - 282	16243		H0556: 1 and T0041: 1.	
HTXMI62	870456	6492	1 - 402	16244	Arg-4 to Pro-13, Gly-45 to Val-52.	H0556: 2	
HTXMI03	923001	6493	141 - 350	16245		H0265: 1 and H0556: 1.	
HTXMI50	830027	6494	2 - 358	16246	Asp-1 to Glu-6, Ile-14 to Ala-21, Pro-49 to Phe-67, His-73 to Ser-98.	H0265: 2, H0556: 1 and L0748: 1.	Xq21 305450, 309600, 309605, 311360, 314580
HTXMO28	823172	6495	2 - 232	16247	Gln-7 to Ala-17.	H0556: 2 and L0589: 1.	
HTXMO81	869319	6496	210 - 536	16248		H0556: 2 and L0415: 1.	
HTXMP92	972759	6497	291 - 566	16249	Pro-10 to Asn-16.	H0556: 2 and H0265: 1.	
HTXMQ07	952206	6498	115 - 294	16250	Asp-1 to Asn-6.	H0556: 1, S0218: 1 and H0591: 1.	
HTXMT06	933376	6499	50 - 247	16251	Lys-61 to Ala-66.	H0265: 1 and H0556: 1.	
HTXMU10	961472	6500	2 - 100	16252	Ser-15 to Ala-20.	H0556: 2 and H0090: 1.	
HTXMX03	923005	6501	578 - 763	16253	Ser-22 to Lys-27.	H0556: 2, H0445: 2, L0748: 1 and H0444: 1.	
HTXMX32	789063	6502	3 - 212	16254	Glu-8 to Lys-13.	H0556: 1 and H0063: 1.	
HTXMX41	789332	6503	247 - 459	16255	Cys-10 to Ala-17, Thr-39 to Pro-45.	H0556: 1, H0063: 1, L0375: 1, L0750: 1 and L0758: 1.	
HTXMY15	780129	6504	253 - 501	16256	Glu-1 to Asn-9.	H0556: 2 and H0179: 1.	
HTXMY23	835044	6505	522 - 217	16257	Asp-19 to Val-24.	AR051: 38, AR050: 35, AR051: 38, AR050: 35,	

								AR054: 32 H0556: 1 and S0002: 1.		
HTXNZ91	835045	9610	642 - 361	19362				H0556: 2		
HTXND08	789619	6506	26 - 148	16258			Ile-33 to Ser-40.	H0556: 3, H0583: 1 and H0625: 1.		
	869311	6507	379 - 618	16259						
HTXND91	789706	6508	317 - 592	16260				H0556: 1 and S0114: 1.		
HTXNF56	974048	6509	125 - 373	16261				H0556: 2 and H0265: 1.		
HTXNJ80	966045	6510	151 - 282	16262				H0556: 2		
HTXNM82	973993	6511	218 - 346	16263				H0556: 3		
HTXNN03	922997	6512	262 - 405	16264				H0556: 2		
HTXNN33	780965	6513	692 - 483	16265			Gly-5 to Leu-10.	H0556: 5, L0766: 2, H0265: 1, H0521: 1 and L0748: 1.		
HTXNO48	963444	6514	154 - 255	16266				H0556: 2		
HTXNO58	916249	6515	115 - 414	16267			Gln-17 to Glu-39, Gln-62 to Lys-67, Leu-71 to Gln-76.	H0556: 2		
HTXNQ06	934303	6516	157 - 288	16268				H0556: 1 and H0445: 1.		
HTXNQ63	951939	6517	29 - 229	16269			Pro-1 to Gly-9, Lys-16 to Cys-27.	H0556: 3		
HTXNR01	913781	6518	151 - 396	16270				H0556: 2, H0265: 1, H0255: 1 and H0444: 1.		
HTXNR17	856465	6519	45 - 479	16271			Arg-1 to Lys-14, Glu-37 to Gly-43, Cys-47 to Gly-57, Ala-103 to Gly-108.	H0556: 8, H0265: 1, S0114: 1, H0445: 1 and H0542: 1.		
HTXNT07	952165	6520	182 - 775	16272			Pro-14 to Pro-28.	L0740: 3, L0777: 2, H0556: 1, S0114: 1 and L0780: 1.		
HTXNT43	869398	6521	509 - 664	16273				H0265: 1 and H0556: 1.		
HTXNT76	869189	6522	481 - 732	16274				H0556: 2, L0439: 2, L0438: 1, L0747: 1 and L0749: 1.		
HTXNU51	972837	6523	3 - 350	16275				H0556: 3		
HTXNY70	869289	6524	67 - 315	16276			Val-27 to Leu-32.	H0556: 2		
HTXNY74	918076	6525	36 - 536	16277			Arg-1 to Gly-7, Phe-11 to Arg-23.	H0556: 2 and H0179: 1.		
HTXOC32	869280	6526	394 - 639	16278				H0556: 2 and H0265: 1.		

HTXOD62	806643	6527	13 - 234	16279			H0556: 1 and H0522: 1.		
HTXOG84	929289	6528	20 - 358	16280	His-2 to Gly-10, Glu-22 to Arg-28.		H0265: 1, H0556: 1, H0657: 1 and H0543: 1.		
HTXOH04	926909	6529	119 - 295	16281			H0556: 2		
HTXOH60	869271	6530	2 - 172	16282			H0265: 1 and H0556: 1.		
HTXOI50	869279	6531	348 - 554	16283			H0556: 4		
HTXOI92	974039	6532	280 - 477	16284	Asn-1 to Arg-11, Pro-13 to Ser-24.		H0265: 2, H0556: 2, H0255: 2 and H0423: 1.		
HTXOM10	963435	6533	1 - 108	16285	Met-13 to His-21.		H0265: 1 and H0556: 1.		
HTXOO06	934248	6534	347 - 535	16286	Thr-55 to Gln-61.		H0556: 2, L0749: 2, S0218: 1 and L0748: 1.		
HTXOO83	898860	6535	105 - 410	16287			H0556: 3, S0052: 2, S0134: 1, H0306: 1 and S0053: 1.		
HTXOR11	965090	6536	2 - 148	16288	Lys-1 to Glu-6.		H0556: 2		
HTXOR48	869253	6537	262 - 591	16289	Pro-46 to Gln-52, Thr-61 to Val-70.		H0556: 2 and L0595: 1.		
HTXOR86	914739	6538	64 - 255	16290	Gln-35 to His-44.		H0556: 4		
HTXOS47	965558	6539	34 - 198	16291	Gln-1 to Gly-8.		H0556: 3, L0759: 3, S0212: 1 and L0805: 1.		
HTXOT42	974034	6540	74 - 433	16292			H0556: 7, H0265: 1 and L0748: 1.		
HTXOU06	852057	6541	329 - 547	16293			H0556: 2 and H0486: 1.		
HTXOU48	869252	6542	2 - 262	16294	Lys-1 to Tyr-11, Thr-13 to Lys-21, Ser-79 to Arg-87.		H0556: 2		
HTXOU67	906909	6543	229 - 414	16295	Pro-22 to Ser-28.		H0556: 2		
HTXOX02	918556	6544	329 - 553	16296	Arg-8 to Arg-14.		H0556: 1 and H0318: 1.		
HTXOX42	920274	6545	209 - 553	16297	Pro-45 to Ser-53.		H0255: 2 and H0556: 1.		
HTXOZ02	918566	6546	95 - 289	16298			H0556: 2		
HTXPF93	954976	6547	2 - 178	16299			AR051: 33, AR054: 28, AR050: 24 H0556: 2		
HTXPI03	922877	6548	274 - 486	16300			H0556: 1 and H0271: 1.		
HTXPK10	963397	6549	112 - 450	16301	Ser-1 to Thr-13.		H0556: 2 and H0521: 1.		
HTXPK28	957888	6550	55 - 231	16302			H0556: 4 and H0265: 1.		



HTXPO91	869224	6551	114 - 350	16303	Gln-23 to Leu-28, Trp-66 to Gln-74.	H0436: 2 and H0556: 1.	
HTXPO92	869214	6552	330 - 518	16304	Thr-30 to Thr-37.	H0556: 2	
HTXPP33	799925	6553	3 - 635	16305		AR054: 10, AR050: 8, AR051: 2 H0265: 2 and H0556: 1.	
HTXPR92	869221	6554	36 - 320	16306	Arg-15 to Ser-21, Arg-25 to Gly-30, Lys-74 to Lys-81.	H0556: 2	
HTXPT68	870074	6555	2 - 469	16307	Pro-46 to Ser-51.	AR089: 2, AR061: 2 H0556: 2	
HTXPW03	922884	6556	94 - 330	16308		H0265: 1 and H0556: 1.	
HTXPW20	869198	6557	252 - 485	16309	Leu-12 to Glu-24, Lys-52 to Ala-57.	H0556: 2	
HTXPX02	918494	6558	117 - 470	16310	Leu-7 to Gly-17, Thr-20 to Glu-29, Gln-45 to Phe-52, Phe-56 to Tyr-61, Glu-102 to Gln-116.	H0556: 2, H0265: 1 and L0523: 1.	
HTXQA18	869184	6559	375 - 605	16311	Thr-31 to Pro-38, Pro-68 to Gln-73.	S0114: 3 and H0556: 1.	
HTXQC36	961161	6560	337 - 522	16312	Arg-37 to Tyr-44.	H0556: 1 and H0255: 1.	
HTXQC77	974033	6561	444 - 698	16313	Ser-2 to Ser-8.	H0556: 3 and H0265: 1.	
HTXQF10	963403	6562	386 - 541	16314		H0265: 1 and H0556: 1.	
HTXQM11	965645	6563	121 - 303	16315	Thr-5 to Gly-10, Glu-52 to Leu-60.	H0556: 1 and S0053: 1.	
HTXQN24	963503	6564	1 - 447	16316	Pro-6 to Gly-12.	H0556: 2 and L0758: 1.	
HTXQR90	869139	6565	2 - 421	16317	Met-11 to His-26, Ser-62 to Ser-67, Ala-71 to Pro-77.	H0265: 1 and H0556: 1.	
HTXQU07	952030	6566	43 - 189	16318		H0556: 1 and H0543: 1.	
HTXQW02	918081	6567	196 - 459	16319		H0556: 2	
HTXQW29	869134	6568	105 - 386	16320		H0556: 2 and T0041: 1.	
HTXRA11	965596	6569	221 - 397	16321		H0556: 2	
HTXRB38	869133	6570	20 - 193	16322	Gln-1 to Gly-9, Lys-47 to Ser-53.	H0556: 1 and H0486: 1.	

HTXRC17	973981	6571	91 - 330	16323	Gln-7 to Lys-13, Trp-65 to Thr-72.	H0556: 2 and S0218: 1.		
HTXRD51	921285	6572	13 - 219	16324	Pro-11 to Ala-18, Ser-38 to Arg-44, Lys-59 to Pro-68.	H0556: 1 and H0069: 1.		
HTXRE04	926371	6573	3 - 227	16325	Gln-1 to Pro-10, Pro-32 to Arg-50.	H0556: 2		
HTXRJ02	918031	6574	1 - 321	16326	Ser-5 to Ser-15, Gly-73 to Asp-86.	H0556: 1 and H0318: 1.		
HTXRM86	975072	6575	3 - 578	16327		AR061: 2, AR089: 1 H0556: 3		
HTXRO02	918009	6576	99 - 206	16328		H0556: 2		
HTXSB88	914627	6577	541 - 846	16329	Lys-26 to Glu-31, Ala-42 to Tyr-49, Glu-79 to Trp-95.	H0556: 1, H0650: 1 and L0731: 1.		
HTXSK91	915903	6578	298 - 462	16330	Glu-4 to Ser-14, Asp-20 to Leu-25.	H0556: 1 and H0521: 1.	Xp21.1	301220, 302350, 306400, 309470, 309585, 311250, 312040, 312610, 314850
HTXSR92	973095	6579	132 - 428	16331		AR089: 0, AR061: 0 H0265: 1, H0556: 1 and H0083: 1.		
HTYNC52	869119	6580	451 - 251	16332	Leu-21 to Gly-27, Pro-39 to Lys-57.	S0216: 1 and S0452: 1.		
HTYSB62	768350	6581	26 - 250	16333	Val-1 to Ile-8, Glu-64 to Leu-72.	H0116: 2		
HTYSD32	702994	6582	1 - 258	16334		H0581: 1, H0116: 1 and L0746: 1.		
HTZAB04	973811	6583	382 - 648	16335	Thr-1 to Val-7.	S3018: 2 and S0140: 1.		
HUJAB25	878465	6584	3 - 353	16336	Gly-79 to Cys-84.	H0650: 2		
HUJAG07	951873	6585	215 - 3	16337	Tyr-2 to Thr-8, Lys-65 to Lys-71.	L0766: 4, H0318: 3, H0650: 1, L0772: 1 and L0774: 1.		
HUJAM39	911399	6586	631 - 1323	16338	Arg-1 to Trp-7, Arg-14 to Cys-32, Gln-65 to Leu-75.	H0457: 4, H0650: 1, H0656: 1, H0255: 1, H0641: 1 and L0766: 1.		

HUJBL07	951874	6587	1 - 195	16339			H0650: 1 and H0318: 1.		
HUJCB67	958914	6588	2 - 265	16340			H0318: 2, H0650: 1 and H0488: 1.		
HUJCM08	957784	6589	2 - 733	16341		Arg-9 to Trp-15, Ser-36 to Lys-49, Glu-95 to Ala-104, Pro-113 to His-118, Arg-124 to Gly-130, Arg-146 to Asp-153, Arg-159 to Arg-168.	H0585: 2 and H0650: 1.	5p15.33	
HUJCT61	933920	6590	304 - 606	16342		Pro-35 to Pro-40.	H0265: 1, H0556: 1 and H0650: 1.		
HUICV04	926175	6591	3 - 329	16343		Arg-1 to Met-8.	H0650: 1 and H0580: 1.		
HUJDB08	957786	6592	579 - 773	16344			H0650: 1, H0318: 1 and H0090: 1.		
HUJDI58	920851	6593	12 - 359	16345			S0114: 1 and H0650: 1.		
HUUAJ10	914330	6594	552 - 764	16346		Ser-13 to Arg-20, Glu-23 to His-28.	H0656: 2, L0749: 2, H0657: 1 and H0264: 1.		
HUUAPE82	966685	6595	168 - 650	16347		Cys-14 to His-23, Arg-27 to Arg-45.	H0656: 2 and H0318: 1.		
HUUA512	968953	6596	3 - 656	16348		Ser-42 to Pro-47.	H0656: 2 and H0486: 1.		
HUUA506	966816	6597	88 - 396	16349		Gly-1 to Ser-9, Arg-19 to Arg-28, Ala-36 to Gly-43, Ser-73 to Pro-78.	H0656: 2, L0748: 1 and L0757: 1.	22q13.2-q13.31	188826, 250100, 250800, 250800
HUUA583	921559	6598	80 - 316	16350			H0254: 2 and H0656: 1.		
HUUCI06	933322	6599	115 - 354	16351		Val-39 to Asn-44.	H0656: 1 and S0053: 1.		
HUUCI07	951824	6600	158 - 361	16352			H0656: 2		
HUUCOI2	969258	6601	3 - 53	16353			H0656: 2		
HUUCP08	957715	6602	247 - 429	16354			H0656: 2		
HUUCQ03	915269	6603	1 - 585	16355		Thr-40 to Lys-48, Lys-53 to Glu-58, Ser-74 to Ser-80, Phe-82 to Leu-91, Lys-141 to Asp-146, Arg-161 to Asp-167.	H0656: 1, H0581: 1, H0591: 1 and H0521: 1.		

HUUCS49	965987	6604	86 - 502	16356	Asp-177 to Lys-183. Gln-9 to Thr-16, Pro-36 to Glu-52.	H0656: 2		
HUUDG08	957721	6605	148 - 267	16357	Asn-18 to Gly-38.	H0656: 1 and H0306: 1.		
HUUDJ10	961717	6606	420 - 524	16358		H0656: 2		
HUUDS10	961706	6607	89 - 238	16359		H0650: 1 and H0656: 1.		
HWAAE23	675326	6608	497 - 706	16360		H0265: 1, H0556: 1, S0114: 1, H0581: 1, L0532: 1, L0758: 1 and L0599: 1.		
HWAAE55	719194	6609	98 - 349	16361	Asp-21 to Gly-26, Leu-50 to Ser-57.	H0370: 1 and H0581: 1.		
HWAAE90	778917	6610	87 - 287	16362		H0581: 1 and S0053: 1.		
HWAAF27	721151	6611	2 - 313	16363	Asp-28 to Thr-34.	H0485: 1 and H0581: 1.		
HWAAF66	908541	6612	3 - 320	16364	Arg-1 to Gly-11, Ser-40 to Asp-46.	AR089: 5, AR061: 2 H0583: 1, H0581: 1 and H0083: 1.		
HWAAF81	712203	6613	177 - 34	16365	Lys-6 to Gly-13.	H0581: 1 and H0457: 1.		
HWAAAL31	697716	6614	2 - 550	16366	Gly-8 to Trp-13, Pro-34 to Thr-46, Glu-66 to Pro-79, Ala-85 to Ala-100, Gln-102 to Glu-120, Glu-143 to Gln-156, Ser-168 to Ser-177.	H0581: 1 and H0457: 1.		
HWAAAM04	614973	6615	131 - 295	16367		H0265: 1 and H0581: 1.		
HWAAAM23	675712	6616	136 - 384	16368		H0635: 1, H0581: 1, L0545: 1, L0748: 1 and L0591: 1.		
HWAAAR36	915621	6617	195 - 353	16369	Phe-44 to Gln-53.	H0581: 2 and S0116: 1.		
HWAAAW74	935602	6618	2 - 127	16370	Gln-1 to Gln-7.	H0402: 1 and H0581: 1.		
HWAAAY03	923734	6619	176 - 373	16371		H0581: 1 and H0423: 1.		
HWABA49	859878	6620	83 - 382	16372	Leu-72 to Phe-79.	H0069: 1 and H0581: 1.		
HWABB37	870088	6621	2 - 382	16373	Gly-8 to Ala-18, Thr-92 to Thr-100.	H0581: 1 and H0521: 1.		
HWABE67	751418	6622	1 - 150	16374		H0581: 2		
HWABE94	838096	6623	406 - 182	16375	Val-22 to Gly-36, Pro-48 to His-53.	H0581: 2		

HWABF91	698131	6624	64 - 231	16376	Ser-2 to Gly-9.	H0581: 1 and H0422: 1.		
HWABI18	529803	6625	38 - 211	16377		S0114: 1, H0581: 1, H0264: 1 and S0053: 1.		
HWABQ57	734536	6626	3 - 125	16378	Arg-15 to Tyr-21, Pro-30 to Gln-41.	H0581: 2		
HWABS04	494837	6627	15 - 206	16379		H0581: 2, H0625: 1, S0428: 1, H0436: 1 and H0423: 1.		
HWABS51	719221	6628	3 - 209	16380		S0116: 1 and H0581: 1.		
HWABT82	784211	6629	1 - 117	16381	Phe-13 to Cys-18.	H0581: 2		
HWABW02	919441	6630	3 - 212	16382		H0581: 1 and S0052: 1.		
HWABW15	659944	6631	561 - 830	16383		H0581: 1 and H0444: 1.		
HWABW34	703861	6632	120 - 290	16384	Lys-15 to Pro-20.	H0581: 1 and H0487: 1.		
HWABW78	865145	6633	74 - 265	16385	Arg-11 to Cys-16.	H0581: 1 and S0142: 1.		
HWABX49	685187	6634	103 - 345	16386	Ser-14 to Lys-31, Pro-41 to Glu-55, Lys-63 to Glu-72.	H0581: 1 and H0522: 1.		
HWABX68	752825	6635	119 - 262	16387	Leu-1 to Val-14.	S0114: 1 and H0581: 1.		
HWABY12	968857	6636	281 - 577	16388	Asn-8 to Thr-16, Ser-28 to Phe-34, Thr-76 to Gly-85.	H0581: 1 and H0445: 1.		
HWACA38	943074	6637	2 - 577	16389	Asp-81 to Ile-89, Asn-112 to Ser-125, Leu-179 to Ser-189.	AR054: 255, AR050: 206, AR051: 141 H0271: 18, H0556: 9, H0265: 8, H0581: 8, L0761: 4, H0543: 4, H0422: 4, H0656: 3, H0457: 3, L0766: 3, T0002: 2, L0748: 2, H0220: 1, H0650: 1, S0282: 1, H0610: 1, H0069: 1, H0635: 1, H0179: 1, H0416: 1, H0031: 1, H0090: 1, T0041: 1, H0560: 1, H0529: 1, L0667: 1, L0649: 1, L0803: 1, L0659: 1, L0666: 1, S0052: 1, S0216: 1, H0702: 1, H0518: 1, H0521: 1		

HWACB75	685247	6638	273 - 461	16390	Ile-22 to Asn-32, Gly-36 to Asp-49.	1, L0750: 1, H0445: 1, H0423: 1, H0677: 1 and H0506: 1.		
HWACG21	868530	6639	216 - 1	16391		S0114: 1 and H0581: 1.		
HWACG64	675517	6640	192 - 356	16392	Arg-38 to Ser-47.	H0581: 2		
HWACG68	752710	6641	163 - 351	16393	Arg-41 to Gly-48.	H0581: 2 and L0697: 1.		
HWACG94	670912	6642	185 - 322	16394		H0581: 2		
HWACH33	686740	6643	76 - 264	16395		S0114: 1, H0581: 1 and H0543: 1.		
HWACH49	722572	6644	128 - 349	16396	Pro-8 to Ser-14, Ser-55 to Lys-60.	H0581: 1 and S0052: 1.		
HWACK78	753565	6645	31 - 222	16397	Lys-37 to Ala-43.	H0581: 2		
HWACM17	662307	6646	2 - 148	16398		S0114: 1 and H0581: 1.		
HWACP03	869938	6647	3 - 320	16399		H0581: 1 and H0422: 1.		
HWACQ19	668093	6648	193 - 528	16400		H0581: 1 and H0264: 1.		
HWACR28	685983	6649	212 - 403	16401		H0581: 2		
HWACR77	771777	6650	1 - 117	16402		H0581: 3 and H0580: 1.		
HWACU96	787349	6651	116 - 259	16403		H0581: 2		
HWACV04	927275	6652	177 - 85	16404	Thr-9 to Leu-15.	H0581: 2 and H0436: 1.		
HWACX82	705560	6653	61 - 186	16405		H0581: 1 and S0052: 1.		
HWADA93	647703	6654	236 - 493	16406		H0581: 2, L0439: 2, H0318: 1, L0438: 1 and L0748: 1.		
HWADE38	709487	6655	327 - 446	16407		H0581: 1 and H0421: 1.		
HWADF26	957347	6656	1099 - 506	16408	Ala-45 to Asp-53, Asn-57 to Asp-68, Glu-84 to Cys-92, Asn-97 to Ser-105.	AR050: 78, AR054: 61, AR051: 60, AR061: 2, AR089: 1 H0581: 2, S0114: 1 and L0362: 1.		
HWADG01	915567	6657	120 - 350	16409	Asn-25 to Gly-30.	S0114: 1 and H0581: 1.		
HWADG26	680182	6658	226 - 423	16410		S0218: 1 and H0581: 1.		
HWADG27	958200	6659	300 - 605	16411	Gly-20 to Asp-26.	H0581: 2		
HWADI32	698651	6660	154 - 369	16412		H0581: 2		
HWADI53	727820	6661	41 - 298	16413	Ala-1 to Tyr-8,	L0748: 3, H0581: 2 and		

HWADJ29	690074	6662	109 - 285	16414	Asp-33 to Ser-38.	H0402: 1.		
HWADL02	918986	6663	48 - 143	16415	Phe-12 to Thr-17.	H0581: 1 and H0444: 1.		
HWADL36	706697	6664	38 - 292	16416	Pro-11 to Ile-16, Ile-40 to Cys-51, Gly-62 to Tyr-67.	H0581: 2 H0581: 1 and H0521: 1.		
HWADM30	868520	6665	97 - 297	16417	Ser-2 to Pro-8, Phe-16 to Cys-22.	S0114: 1 and H0581: 1.		
HWADN19	657528	6666	297 - 109	16418	Leu-33 to Lys-50.	H0457: 2 and H0581: 1.		
HWADN21	670274	6667	203 - 418	16419	Cys-1 to Arg-6.	H0250: 1 and H0581: 1.		
HWADN46	924888	6668	264 - 572	16420		H0271: 2 and H0581: 1.		
HWADO54	729136	6669	253 - 393	16421		H0581: 2 and H0264: 1.		
HWADP26	680211	6670	3 - 635	16422	Pro-20 to Gln-25, Ser-31 to Cys-36, Leu-39 to Ser-52, Val-64 to Ser-73, Ala-89 to Glu-98, Ser-100 to Glu-109, Val-113 to Gln-119, Lys-146 to Pro-151.	S0114: 1 and H0581: 1.		
HWADQ27	682448	6671	444 - 584	16423		H0318: 1 and H0581: 1.		
HWADQ91	693834	6672	212 - 358	16424		H0581: 2		
HWADR47	944042	6673	109 - 252	16425	Leu-1 to Trp-6.	S0212: 1 and H0581: 1.	4	
HWADS43	675454	6674	12 - 185	16426	Tyr-18 to Cys-27.	H0581: 2, L0790: 1 and S0428: 1.		
HWADS53	717544	6675	1 - 105	16427	Asp-17 to Asn-23.	H0581: 2, L0805: 1 and H0521: 1.		
HWADV51	916669	6676	3 - 326	16428		H0581: 1 and H0436: 1.		
HWADV82	708688	6677	251 - 382	16429		H0581: 1 and H0271: 1.		
HWADW41	722343	6678	2 - 334	16430	Gly-35 to Thr-40.	H0581: 1, L0743: 1 and H0543: 1.		
HWADX46	718647	6679	337 - 570	16431	Glu-1 to Pro-9, Pro-37 to Lys-42.	H0265: 1 and H0581: 1.		
HWADX62	868509	6680	218 - 424	16432	Glu-6 to Ser-14, Thr-39 to Gln-45.	H0581: 2 and H0583: 1.		
HWADY59	738874	6681	2 - 262	16433	Thr-5 to Lys-17.	H0581: 1, H0063: 1, H0436:		

HWADZ21	670270	6682	2 - 166	16434	Ser-1 to Asn-10.	1, H0444: 1 and L0599: 1.	
HWADZ84	782682	6683	2 - 97	16435		H0581: 1 and S0142: 1.	
HWAEA55	731094	6684	28 - 240	16436	Ala-1 to Leu-6.	H0581: 2	
HWAEA60	964384	6685	224 - 403	16437	Leu-6 to Gln-15.	S0218: 1 and H0581: 1.	
HWAEB19	750811	6686	2 - 154	16438		H0581: 1 and H0445: 1.	
HWAEB94	778009	6687	2 - 184	16439	Lys-46 to Glu-60.	S0114: 1 and H0581: 1.	
HWAE75	852921	6688	506 - 709	16440	His-5 to Arg-13, Leu-18 to Leu-23.	H0581: 1 and H0457: 1.	
						H0581: 3, H0318: 2, L0766: 2, L0438: 2, L0439: 2, L0758: 2, H0485: 1, L0451: 1, L0542: 1, L0745: 1 and H0543: 1.	
HWAEG01	915064	6689	70 - 168	16441		H0581: 1 and H0444: 1.	
HWAEG82	868489	6690	263 - 463	16442		H0581: 2 and H0543: 2.	
HWAEN20	868490	6691	119 - 472	16443		H0580: 1, H0581: 1 and L0748: 1.	
HWAFD32	850048	6692	43 - 279	16444	Leu-1 to Pro-6, Pro-13 to Glu-18, Gly-51 to Gly-62, Arg-71 to Tyr-79.	H0402: 1 and H0581: 1.	
HWAFG08	958173	6693	3 - 149	16445	Asn-23 to His-35.	S0114: 1, H0402: 1 and H0581: 1.	
HWAFR09	973926	6694	156 - 341	16446		H0581: 1 and H0090: 1.	
HWAF03	922832	6695	288 - 413	16447		S0134: 1 and H0581: 1.	
HWAFW34	926801	6696	6 - 179	16448	Ser-8 to Val-16, Ser-43 to Cys-49.	H0581: 2	
HWAFW39	947915	6697	188 - 370	16449		AR089: 2, AR061: 1 H0255: 1 and H0581: 1.	
HWAFX39	907631	6698	1 - 369	16450	Asn-36 to Arg-48, His-107 to Tyr-112.	H0581: 1 and H0543: 1.	
HWAFY24	868427	6699	113 - 361	16451		H0581: 2	
HWAFZ13	873396	6700	74 - 415	16452	Ser-35 to Arg-48, Leu-79 to Asn-88.	H0635: 2, H0581: 1 and H0521: 1.	
HWAFZ82	868426	6701	52 - 288	16453	Gly-12 to His-17.	H0581: 2	
HWAGC76	941311	6702	52 - 399	16454	Pro-21 to Ala-27, Ala-49 to Ala-56.	S0278: 8, S0344: 5, L0740: 3, H0250: 2, H0581: 2,	



HWAGD11	965895	6703	3 - 530	16455	Pro-38 to Lys-44, Arg-64 to Glu-79, Pro-129 to Gly-139, Arg-145 to Pro-151, Pro-154 to Arg-159.	H0457: 2, S0142: 2, L0774: 2, L0749: 2, S0116: 1, H0031: 1, H0063: 1, S0144: 1, S0002: 1, L0800: 1, L0744: 1, L0777: 1 and H0653: 1.		
HWAGD58	869383	6704	3 - 224	16456	Lys-39 to Pro-47.	H0581: 1 and H0542: 1.		
HWAGE40	926279	6705	2 - 262	16457	Pro-31 to Phe-36, Gln-39 to Gln-45.	H0250: 2 and H0581: 1.		
HWAGG79	930876	6706	32 - 286	16458	Glu-30 to Leu-48, Cys-53 to Ser-60.	H0581: 1 and H0543: 1.		
HWAGJ49	838759	6707	357 - 536	16459		H0581: 2		
HWAGK95	868403	6708	238 - 441	16460		H0581: 2 and H0264: 1.		
HWAGL53	842011	6709	180 - 422	16461	Gly-37 to Leu-42.	H0581: 1 and H0457: 1.		
HWAGM33	888685	6710	526 - 1140	16462	Ser-68 to Val-74, Pro-87 to Arg-97, Cys-153 to Trp-164, Arg-172 to Cys-178.	AR089: 1, AR061: 0 H0305: 1, H0581: 1, L0745: 1 and L0747: 1.		
HWAGX37	959586	6711	390 - 662	16463	Gly-29 to Ser-35.	H0457: 3, H0581: 1 and H0445: 1.		
HWAGY05	931001	6712	127 - 369	16464		H0264: 2, H0556: 1, H0581: 1 and H0444: 1.		
HWAGZ22	868523	6713	70 - 378	16465	Pro-33 to Phe-41, Phe-52 to Cys-58, Pro-88 to Cys-93.	H0581: 2, H0224: 1 and H0160: 1.		
HWAH110	960646	6714	1344 - 280	16466		H0581: 1 and T0041: 1.		
HWAS94	909667	6715	1 - 471	16467	Pro-52 to Ser-60, Ala-92 to Gly-102.	H0581: 2, H0341: 1, H0521: 1, H0543: 1 and S0452: 1.		
HWAE02	918215	6716	428 - 607	16468		H0581: 2		
HWBAB43	715110	6717	3 - 341	16469	Ile-2 to Asp-8.	H0580: 1 and H0521: 1.		

HWBAB69	582109	6718	2 - 388	16470	Asp-36 to Glu-44, Arg-62 to Leu-67, Arg-74 to Ala-80, Pro-100 to Gly-106.	H0580: 2, L0748: 1 and S0308: 1.	19q13.3	113900, 126340, 126391, 130410, 134790, 138570, 160900, 173850, 258501, 600040, 602225, 602225
HWBAC22	823086	6719	932 - 657	16471	Met-36 to Tyr-44.	H0580: 1 and H0457: 1.		
HWBAL44	959449	6720	566 - 3	16472	Pro-27 to Thr-32, Pro-42 to Trp-48, Asp-109 to Arg-115, Phe-126 to Asp-136, Thr-145 to Lys-151.	H0580: 2, S0002: 2 and L0779: 2.		
HWBAN54	729329	6721	77 - 217	16473	Glu-16 to Phe-23, Leu-35 to Lys-42.	H0580: 1 and H0444: 1.		
HWBAQ16	868363	6722	767 - 925	16474		H0445: 2, H0580: 1, L0761: 1 and L0697: 1.		
HWBAR44	715963	6723	2 - 187	16475	Ala-47 to Asp-52.	H0580: 2 and L0747: 2.		
HWBAR90	788700	6724	427 - 561	16476	Ser-1 to Lys-6.	H0580: 1 and H0416: 1.		
HWBAS92	960197	6725	321 - 575	16477	Asn-1 to His-10, Ala-40 to Ile-45.	H0305: 2, H0580: 1 and L0518: 1.		
HWBAX06	935032	6726	1 - 117	16478	Gly-9 to Gly-21.	H0580: 1 and H0486: 1.		
HWBAX39	630220	6727	282 - 467	16479	Asp-1 to Cys-6.	H0580: 2		
HWBAZ51	707033	6728	246 - 413	16480	Arg-10 to Ser-15, Lys-34 to Pro-41.	H0580: 1 and H0264: 1.		
HWBBA64	927809	6729	120 - 371	16481	Leu-40 to Lys-45.	H0580: 1 and H0264: 1.		
HWBBA83	775401	6730	365 - 571	16482	Gly-22 to Gly-40, Pro-47 to Asn-54.	H0402: 1 and H0580: 1.		
HWBBB48	559708	6731	32 - 250	16483	Gly-13 to Trp-18, Ile-29 to Thr-35, Ala-42 to Ala-52.	H0580: 2		
HWBBE01	851029	6732	107 - 361	16484		H0580: 1 and H0457: 1.		
HWBBF31	868359	6733	3 - 230	16485		H0580: 1 and H0551: 1.		

HWBB120	669491	6734	34 - 243	16486	Met-1 to Glu-18.	H0580: 2		
HWBB154	971547	6735	45 - 200	16487	Glu-38 to Lys-45.	H0580: 1 and H0128: 1.		
HWBBL78	723183	6736	294 - 500	16488	Glu-57 to Glu-64.	L0748: 2, H0580: 1, L0171: 1, L0662: 1, S0052: 1 and H0522: 1.		
HWBBM28	686259	6737	177 - 374	16489		S0116: 1 and H0580: 1.	8q24-qter	
HWBBO46	718858	6738	428 - 571	16490		H0580: 1, L0748: 1 and H0444: 1.		
HWBBQ40	660971	6739	85 - 282	16491		H0254: 1 and H0580: 1.		
HWBBQ86	656704	6740	10 - 228	16492		S0298: 1 and H0580: 1.		
HWBBR65	747723	6741	32 - 232	16493	Gly-1 to Ser-9.	AR089: 28, AR061: 24 L0748: 2, H0580: 1 and H0421: 1.		
HWBBR78	663728	6742	148 - 354	16494	Asn-30 to Gln-39.	H0580: 1 and H0521: 1.		
HWBBV03	868346	6743	109 - 270	16495		H0402: 1 and H0580: 1.		
HWBBV59	682344	6744	232 - 348	16496	Trp-2 to Asp-11.	H0580: 2		
HWBBV83	771349	6745	3 - 257	16497		H0543: 2 and H0580: 1.		
HWBBW11	966665	6746	1 - 231	16498	Leu-10 to Ser-15, Gly-59 to Gly-66, Arg-72 to Cys-77.	H0402: 1, H0580: 1 and L0055: 1.		
HWBBX08	860880	6747	209 - 580	16499		H0580: 1 and H0271: 1.		
HWBBY01	916036	6748	218 - 436	16500	Leu-33 to Ile-40.	L0766: 2, S0134: 1, H0580: 1, L0060: 1 and L0747: 1.		
HWBBY74	711633	6749	239 - 397	16501	Ser-10 to Pro-21.	H0580: 1 and H0087: 1.		
HWBCA14	768667	6750	231 - 368	16502		H0580: 1 and S0002: 1.		
HWBCA22	674236	6751	209 - 472	16503	Lys-47 to Ser-54.	H0580: 2		
HWBCA92	712731	6752	320 - 442	16504	Lys-1 to Leu-7.	H0580: 1 and H0179: 1.		
HWBCC85	784189	6753	188 - 316	16505	His-1 to Lys-21.	H0580: 2		
HWBCC90	744828	6754	67 - 210	16506		H0580: 2		
HWBCF85	738552	6755	155 - 277	16507		H0580: 1 and H0318: 1.		
HWBCG35	707803	6756	3 - 299	16508	Gly-1 to Ser-12, Leu-19 to Arg-26, Pro-40 to Arg-46, Asp-52 to Asn-61, Arg-65 to Lys-71, Lys-76 to Gly-84.	H0580: 1 and H0090: 1.		

HWBCG45	527679	6757	13 - 177	16509	Pro-17 to Asn-31.	H0305: 2, H0580: 1 and H0576: 1.		
HWBCI65	868326	6758	267 - 106	16510	Pro-18 to Lys-41.	H0580: 2		
HWBCN09	868325	6759	141 - 347	16511		H0580: 1 and H0635: 1.		
HWBCN55	715064	6760	63 - 326	16512	Arg-25 to Asn-32.	H0580: 1 and H0581: 1.		
HWBCQ10	964233	6761	195 - 377	16513	Tyr-45 to Lys-51.	H0580: 1, H0581: 1 and L0529: 1.		
HWBCQ29	943720	6762	9 - 251	16514	Pro-14 to Met-22, Lys-25 to Ile-31, Ala-55 to His-65, Thr-74 to Lys-81.	AR089: 1, AR061: 1 H0580: 1, H0416: 1 and H0521: 1.		
HWBCS21	960025	6763	148 - 513	16515	Pro-1 to Lys-12, Pro-30 to Gln-35.	S0114: 1 and H0580: 1.		
HWBCS66	765986	6764	545 - 727	16516	Asp-10 to Gly-18.	H0186: 1 and H0580: 1.		
HWBCU82	955858	6765	176 - 382	16517	His-11 to Pro-19.	H0271: 2 and H0580: 1.		
HWBCW04	925649	6766	302 - 541	16518		H0580: 1 and H0445: 1.		
HWBCW88	882592	6767	283 - 636	16519	Lys-21 to Pro-44, Ser-61 to Arg-67, Asn-70 to His-75.	L0731: 5, L0779: 3, L0777: 2, H0580: 1, S0344: 1, L0768: 1, L0751: 1, L0745: 1, L0747: 1 and L0759: 1.		
HWBCW90	731395	6768	142 - 282	16520	Ser-5 to Asn-10.	H0580: 3		
HWBCY30	828318	6769	3 - 476	16521	His-1 to Asp-20, Pro-52 to Phe-57, Gly-64 to Glu-75.	H0580: 1, H0090: 1, L0662: 1, L0766: 1, L0776: 1, L0792: 1, L0740: 1, L0777: 1 and L0752: 1.		
HWBDL50	724145	6770	301 - 513	16522		H0580: 1, H0581: 1 and H0271: 1.		
HWBDM24	963498	6771	741 - 1040	16523		H0521: 2, H0580: 1 and H0522: 1.		
HWBDP31	697705	6772	136 - 426	16524	Asp-11 to Leu-16, Trp-35 to Leu-41, Arg-54 to Pro-60.	H0580: 2		
HWBDR66	750586	6773	370 - 522	16525		H0580: 2		
HWBDS89	771950	6774	76 - 270	16526	Thr-4 to Leu-29, Tyr-42 to Gly-48.	H0580: 2		
HWBDT15	659939	6775	62 - 184	16527		H0580: 1 and S0052: 1.		

HWBDW71	597259	6776	313 - 438	16528			H0580: 2		
HWBEA72	950702	6777	3 - 203	16529			H0580: 2		
HWBEI17	924913	6778	3 - 182	16530			S0116: 1 and H0580: 1.		
HWBEI53	968493	6779	26 - 118	16531			H0580: 1 and H0271: 1.		
HWBEL53	727617	6780	123 - 287	16532			H0580: 2		
HWBEL70	735390	6781	169 - 456	16533		Asp-1 to Gly-6.	H0580: 2		
HWBEL85	954600	6782	46 - 204	16534		Asn-10 to Gln-15,	H0580: 2 and H0179: 1.		
HWBEV44	716215	6783	43 - 195	16535		Glu-31 to Phe-37.	H0580: 2 and L0740: 1.		
HWBEV94	788574	6784	166 - 2	16536		Gly-2 to Pro-12,	H0580: 2		
						Gly-48 to Met-54.			
HWBEX27	682583	6785	1 - 489	16537		Leu-5 to His-12.	AR089: 1, AR061: 0 H0580: 2, L0663: 2, L0662: 1, L0657: 1, L0659: 1, L0666: 1, L0438: 1, L0748: 1 and L0777: 1.	15q15	177070, 177070, 182500, 218000, 227220, 243500, 600839, 601800
HWBEY38	709497	6786	226 - 366	16538			H0580: 1 and H0069: 1.		
HWBEZ47	719940	6787	2 - 160	16539			H0580: 2		
HWBEZ69	664699	6788	127 - 345	16540			H0580: 1, H0264: 1 and H0625: 1.		
HWBEZ90	923008	6789	181 - 336	16541		Asn-9 to Cys-14.	H0580: 2, L0775: 2 and H0521: 2.		
HWBEZ94	856472	6790	188 - 340	16542			H0580: 1, L0521: 1 and H0445: 1.		
HWBFE76	769769	6791	310 - 420	16543		Tyr-1 to Lys-6, Gly-20 to Trp-33.	H0580: 2		
HWBFG09	625162	6792	1 - 195	16544		Pro-13 to Gly-20.	H0580: 2		
HWBFL35	722921	6793	173 - 328	16545		Arg-8 to Arg-22, Asp-28 to Lys-34.	H0580: 2		
HWBFL96	708955	6794	155 - 406	16546		Gln-15 to Glu-22.	H0580: 2		
HWBFM58	735701	6795	1 - 162	16547			H0580: 2		
HWBFM78	773289	6796	117 - 365	16548		Ser-17 to Gly-29, Arg-35 to Ala-42.	H0580: 2		
HWBFN30	691611	6797	188 - 3	16549		Ser-4 to Lys-9.	H0580: 2		
HWBFY69	754729	6798	135 - 257	16550			H0580: 2		

HWBFY88	701904	6799	1 - 111	16551			H0580: 2		
HWBGB08	958611	6800	1 - 84	16552	Thr-16 to Glu-21.		H0580: 1 and H0522: 1.		
HWBGB47	948714	6801	2 - 124	16553			H0580: 2		
HWBGD16	924830	6802	102 - 302	16554			H0580: 1 and H0477: 1.	10q26	176943, 176943, 176943, 176943, 176943, 258870, 263700, 601969, 601969, 602084
HWBGF15	659687	6803	17 - 220	16555			H0265: 1 and H0580: 1.		
HWBG101	915603	6804	23 - 178	16556			H0580: 1 and H0370: 1.		
HWBG113	656308	6805	55 - 276	16557	Ser-25 to Ser-30.		H0580: 2		
HWBG130	691511	6806	105 - 266	16558			H0580: 2		
HWWAZ06	933736	6807	1 - 213	16559			H0318: 3, S0134: 1, S0218: 1, H0657: 1 and L0758: 1.		
HWWDI03	922463	6808	113 - 301	16560	Val-7 to Leu-22, Cys-26 to Met-34, Gly-57 to Ser-63.		H0657: 2, H0255: 1 and H0318: 1.		
HWWEF06	933697	6809	3 - 128	16561	Gln-24 to Ile-30.		H0657: 2, L0770: 1, L0774: 1, L0666: 1, L0439: 1 and L0777: 1.		
HWWE10	961741	6810	122 - 436	16562	Pro-9 to Ile-14.		H0657: 2, L0532: 1 and L0666: 1.		
HWWEF56	951811	6811	157 - 426	16563			H0657: 2, L0779: 2, L0766: 1 and L0655: 1.		
HWWFA12	968958	6812	151 - 285	16564	Lys-8 to Gly-19, Gly-37 to Arg-45.		H0657: 1, H0318: 1 and H0445: 1.		
HWWFK07	951819	6813	39 - 503	16565	Val-42 to Leu-56.		H0657: 3 and H0521: 1.		
HWWFU42	961739	6814	44 - 247	16566	Pro-17 to His-23.		H0657: 2		
HYAAB66	463413	6815	62 - 325	16567			H0583: 1 and H0422: 1.		
HYAAC60	731763	6816	349 - 552	16568	Leu-22 to Gln-29, Phe-31 to Ala-37.		S0218: 1 and H0583: 1.		
HYAAD03	923797	6817	229 - 336	16569			H0583: 2		
HYAAD67	664597	6818	67 - 180	16570			H0583: 2 and S0052: 1.		
HYAAD95	920280	6819	299 - 625	16571	Lys-14 to Tyr-31, Pro-39 to Phe-45, Trp-86 to Ala-92.		H0318: 7, H0445: 7, L0748: 6, L0766: 4, H0657: 3, L0751: 3, H0423: 3, H0583:		

							2, H0477: 2, L0761: 2, L0794: 2, L0758: 2, L0599: 2, S0114: 1, L0785: 1, H0254: 1, H0402: 1, H0486: 1, H0575: 1, H0421: 1, H0264: 1, H0059: 1, L0767: 1, L0768: 1 and L0655: 1.			
HYAAF33	915050	6820	136 - 396	16572		Ser-50 to Thr-58, Thr-64 to Gly-72.	H0583: 1, L0766: 1 and H0522: 1.			
HYAAH26	681251	6821	99 - 224	16573		Asn-19 to Tyr-28.	H0583: 1 and H0318: 1.			
HYAAH36	947242	6822	47 - 241	16574		Arg-44 to Cys-50.	H0583: 2			
HYAAI55	674591	6823	19 - 141	16575			L0748: 2, S0114: 1 and H0583: 1.			
HYAAI67	706512	6824	233 - 3	16576		His-2 to Trp-7, Glu-37 to Asn-43.	H0583: 1 and H0305: 1.			
HYAAJ36	744792	6825	1 - 414	16577		Ala-1 to Gly-6.	H0583: 1, H0521: 1, L0779: 1 and L0758: 1.			
HYAAJ89	678728	6826	137 - 283	16578			H0583: 1 and H0179: 1.			
HYAAN31	697590	6827	2 - 181	16579		Gly-20 to Trp-33.	H0583: 2			
HYAAO39	599000	6828	242 - 412	16580			H0583: 1 and S0002: 1.			
HYAAR17	662426	6829	2 - 223	16581			H0583: 2			
HYAAR95	862585	6830	252 - 536	16582		Ile-20 to Lys-25.	H0583: 1, S0002: 1, L0766: 1 and H0423: 1.			
HYAAS08	926017	6831	1 - 312	16583		Arg-1 to Phe-18, Pro-38 to Phe-43.	H0583: 1 and H0341: 1.			
HYAAT50	724047	6832	42 - 413	16584		Ile-3 to Ala-11, Arg-25 to Leu-32, Ser-40 to Cys-47, Leu-101 to Lys-111.	S0134: 1 and H0583: 1.			
HYAAU42	890595	6833	2 - 424	16585		Ser-37 to His-43, Val-45 to Trp-60, Lys-106 to Ser-113.	H0583: 1, L0539: 1 and H0271: 1.			
HYAAU88	786666	6834	125 - 430	16586		His-1 to Glu-8, Asp-14 to Cys-21.	S0218: 1, H0583: 1 and S0216: 1.			
HYAAX05	934878	6835	23 - 190	16587			H0583: 2			
HYAAX17	662439	6836	3 - 140	16588			H0583: 2			

HYAAX65	630213	6837	2 - 217	16589	Gly-1 to Trp-13.	H0583: 2		
HYAAY36	766694	6838	110 - 412	16590	Pro-1 to His-11, Ser-52 to Ala-60.	H0556: 6, S0144: 5, H0255: 4, L0766: 4, L0757: 4, H0650: 3, S0278: 3, H0486: 3, S0344: 3, S0426: 3, L0655: 3, L0747: 3, L0749: 3, H0543: 3, S0134: 2, L0785: 2, H0069: 2, H0318: 2, H0179: 2, L0748: 2, L0756: 2, T0002: 1, H0583: 1, S0116: 1, H0402: 1, H0638: 1, S0358: 1, S0140: 1, H0025: 1, H0575: 1, H0581: 1, H0510: 1, H0271: 1, H0063: 1, H0087: 1, L0381: 1, L0378: 1, L0657: 1, L0659: 1, L0542: 1, L0383: 1, H0521: 1, H0436: 1, S0027: 1, L0744: 1, L0779: 1, L0731: 1, H0445: 1, L0601: 1, H0422: 1 and H0677: 1.		103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040
HYABB23	675659	6839	302 - 448	16591		L0754: 3, L0803: 2, L0517: 2, L0362: 2, H0583: 1, L0773: 1, L0662: 1, H0521: 1 and L0780: 1.	2q12	129490, 167415, 176947
HYABB40	799572	6840	288 - 545	16592	Phe-20 to Ser-29.	L0766: 2, L0747: 2, L0779: 2, L0777: 2, L0755: 2, H0583: 1, S0116: 1, L0800: 1, L0644: 1, L0626: 1, L0375: 1, L0776: 1, L0792: 1, L0663: 1, L0748: 1, L0758: 1, L0593: 1 and H0423: 1.		
HYABB96	692653	6841	3 - 170	16593	Ser-1 to Cys-14, Arg-20 to Lys-31, Leu-34 to Thr-46.	H0583: 1 and H0521: 1.	8	



HYABC02	919212	6842	3 - 179	16594	Tyr-1 to Thr-10, Thr-15 to Cys-21, Glu-29 to Trp-34.	H0583: 2	
HYABC58	924677	6843	92 - 202	16595	Asn-1 to Tyr-9.	H0583: 1 and H0063: 1.	
HYABE67	822985	6844	94 - 315	16596	Arg-11 to His-21, Tyr-46 to Gly-54.	H0583: 3 and L0754: 1.	
HYABE85	697593	6845	447 - 635	16597		H0583: 2, L0764: 1 and L0439: 1.	
HYABG22	811950	6846	3 - 146	16598		H0583: 2	
HYABL55	678864	6847	2 - 418	16599	Thr-12 to Thr-28, Glu-30 to Ala-36, Gly-40 to Arg-48, Ala-61 to Trp-75, Arg-94 to Gln-101, Thr-112 to Asp-117.	H0583: 1 and S0052: 1.	
HYABP53	971448	6848	26 - 637	16600	His-1 to Gly-12, His-33 to Gly-44, Thr-124 to Gly-137, Thr-153 to Thr-158, Arg-188 to Gly-193.	AR054: 47, AR051: 42, AR050: 39, AR089: 1, AR061: 1 H0583: 1 and H0656: 1.	
HYABV14	956236	6849	121 - 588	16601	His-1 to Trp-12, Arg-40 to Ala-45, Pro-50 to His-60, Asn-70 to Arg-76.	H0521: 4, L0766: 3, H0583: 1, H0581: 1, H0522: 1 and H0543: 1.	
HYACG89	724923	6850	231 - 512	16602		S0114: 1, L0002: 1 and H0583: 1.	
HYACI15	674268	6851	149 - 277	16603	Ser-21 to Gly-26.	H0583: 1 and H0576: 1.	
HYACI18	665720	6852	122 - 292	16604	His-25 to Lys-32.	H0583: 1, S0002: 1 and L0748: 1.	
HYACI64	929756	6853	299 - 523	16605	Ser-28 to Pro-33.	H0583: 1 and H0423: 1.	
HYACI95	746317	6854	3 - 284	16606	Gly-1 to His-10, Pro-13 to Arg-21, His-39 to Cys-53, Ser-79 to Lys-92.	H0583: 2	
HYACI53	727948	6855	214 - 375	16607	Gln-1 to Ser-6.	L0748: 4 and H0583: 1.	
HYACF71	760102	6856	275 - 565	16608	Pro-27 to Arg-38.	L0439: 2 and H0583: 1.	

HYACE11	966482	6857	74 - 229	16609	Gly-1 to Gly-7, Gln-36 to Leu-45.	H0583: 1 and L0517: 1.		
HYACD06	974495	6858	145 - 384	16610	Leu-10 to Tyr-28, Arg-39 to Lys-44.	H0583: 1		
HYACC03	923525	6859	199 - 462	16611	Pro-24 to Ser-29, Ser-45 to Glu-50.	H0583: 1 and L0589: 1.		
HYABB43	800006	6860	368 - 21	16612	Lys-16 to Arg-21, Ser-44 to Arg-52.	AR050: 136, AR054: 109, AR051: 95, AR089: 1, AR061: 1 L0805: 2, H0583: 1, L0764: 1, L0375: 1, L0776: 1, L0740: 1, L0731: 1 and L0759: 1.		
HYAAY57	734463	6861	347 - 430	16613		H0583: 1 and L0439: 1.		
HYAAV45	717479	6862	360 - 542	16614	Ala-18 to Glu-26.	H0583: 1 and L0749: 1.		
HYAAU65	909956	6863	2 - 580	16615	Gln-68 to Ser-78, Thr-93 to Ser-101, Pro-119 to Ala-130.	AR089: 2, AR061: 1 L0748: 2 and H0583: 1.		
HYAAT55	731420	6864	3 - 233	16616		H0583: 1 and L0748: 1.		
HYAAT39	929758	6865	392 - 186	16617		L0754: 2 and H0583: 1.		
HYAAN84	782838	6866	164 - 364	16618	Ser-30 to Arg-39.	H0583: 1, L0759: 1 and L0589: 1.		
HYAAL49	973089	6867	115 - 300	16619	Val-13 to Gln-19, His-35 to Gly-42.	H0583: 1		
HYAAL41	887395	6868	3 - 257	16620		AR050: 73, AR054: 55, AR051: 52 H0583: 1		
HYAAL19	668338	6869	517 - 738	16621	Met-15 to Asn-21, Ser-36 to Ser-41.	L0439: 4, L0756: 2, L0594: 2, H0583: 1, L0766: 1, L0438: 1, L0779: 1 and L0758: 1.		
HYAAK77	887044	6870	212 - 727	16622		AR054: 69, AR050: 62, AR051: 57 H0583: 1 and L0745: 1.		
HYAAK74	765252	6871	1 - 177	16623	Cys-1 to Arg-12.	H0583: 1, L0748: 1 and L0749: 1.		

HYAAJ03	923526	6872	148 - 279	16624	Glu-26 to Cys-31.	H0583: 1 and L0777: 1.	
HYAAF78	773433	6873	1 - 219	16625	Arg-17 to Asn-23, Ser-43 to Ile-48.	H0583: 1, L0748: 1 and L0754: 1.	
HYAAD24	677019	6874	2 - 157	16626		H0583: 1 and L0748: 1.	
HYAAC24	677010	6875	186 - 389	16627	Glu-21 to Tyr-31, Lys-58 to Lys-64.	H0583: 1 and L0362: 1.	
HYAAB40	841969	6876	268 - 510	16628	Ile-15 to Ser-20.	H0583: 1 and L0717: 1.	
HWWEW11	965434	6877	298 - 471	16629	Gly-1 to Gly-29.	H0657: 1 and L0664: 1.	
HWWEI11	965426	6878	204 - 374	16630	Ser-1 to Leu-8.	H0657: 1 and L0367: 1.	
HWWEC06	933690	6879	85 - 234	16631	Ser-33 to Gly-43.	L0766: 2, H0657: 1 and L0749: 1.	
HWBGG82	779081	6880	377 - 538	16632		H0580: 1, L0745: 1 and L0600: 1.	
HWBGF04	927284	6881	1 - 489	16633		H0580: 1 and L0750: 1.	
HWBFY46	800638	6882	1 - 270	16634	Arg-5 to Arg-14.	AR054: 2, AR050: 2, AR051: 1 H0580: 1	
HWBEG18	909798	6883	55 - 696	16635	Trp-46 to Lys-51, Pro-109 to Asn-123, Phe-156 to Gly-165.	AR089: 82, AR061: 18 H0580: 1	
HWBEF69	754328	6884	324 - 229	16636		H0580: 1 and L0748: 1.	
HWBEE25	677660	6885	534 - 316	16637		H0580: 1 and L0742: 1.	
HWBEA06	934820	6886	31 - 237	16638	Gln-26 to Ser-31, Pro-34 to Gln-40.	H0580: 1 and L0766: 1.	
HWBDU71	835888	6887	418 - 531	16639		H0580: 1 and L0523: 1.	
HWBDU58	735774	6888	490 - 257	16640	Ser-18 to Asn-23, Thr-30 to Thr-41, Pro-63 to Arg-75.	L0439: 3 and H0580: 1.	
HWBDS59	743462	6889	274 - 447	16641	Pro-11 to Thr-20.	L0749: 2, H0580: 1 and L0747: 1.	22q11.2-qter
HWBDS12	971872	6890	3 - 200	16642	Ile-17 to Glu-37.	H0580: 1, L0775: 1 and L0755: 1.	
HWBDR82	779002	6891	153 - 437	16643	Phe-1 to Arg-13, Ser-21 to Gln-32.	H0580: 1 and L0748: 1.	
HWBDQ58	735769	6892	553 - 744	16644		L0748: 2 and H0580: 1.	
HWBDL82	728805	6893	26 - 355	16645	Pro-64 to Ile-75.	L0439: 2 and H0580: 1.	

					Glu-77 to Asp-88, Leu-101 to Gly-110.				
HWDK08	958956	6894	247 - 369	16646					H0580: 1, L0665: 1 and L0599: 1.
HWCV48	721010	6895	136 - 408	16647					H0580: 1 and L0766: 1.
HWCU06	935028	6896	240 - 464	16648					H0580: 1 and L0143: 1.
HWBCS08	909031	6897	2 - 562	16649		Cys-1 to Arg-6, Asp-18 to Ser-30, Cys-37 to Ser-42, Arg-64 to Lys-69, Arg-74 to Val-79, Asp-109 to Asp-115, Val-161 to Lys-166.			AR089: 4, AR061: 1 H0580: 1, L0809: 1 and L0604: 1.
HWBCH41	868342	6898	175 - 363	16650					H0580: 1, L0766: 1 and L0748: 1.
HWB CD20	669472	6899	143 - 418	16651		Arg-3 to Ser-17, Pro-33 to Ala-41.			H0580: 1 and L0439: 1.
HWB CA08	958957	6900	1 - 222	16652		Cys-3 to Ser-10.			L0619: 1 and H0580: 1.
HWB BY86	637734	6901	198 - 503	16653		Ser-8 to Gly-13, Pro-33 to Ser-39, Asn-96 to Gln-102.			AR051: 12, AR054: 7, AR050: 3 H0580: 1
	785151	9611	362 - 3	19363		Ser-8 to Gly-13, Pro-33 to Ser-39, Asn-96 to Lys-101.			
HWB BV52	726509	6902	78 - 218	16654		Leu-9 to Met-17.			H0580: 1, L0740: 1 and L0599: 1.
HWB BU10	964237	6903	8 - 298	16655		Pro-24 to Cys-42, Arg-66 to Pro-71.			L0004: 1, H0580: 1 and L0606: 1.
HWB BT71	760176	6904	247 - 381	16656		His-2 to Gly-8.			H0580: 1 and L0756: 1.
HWB BR45	887686	6905	75 - 239	16657		Leu-4 to Asp-15.			AR054: 240, AR050: 238, AR051: 165 H0580: 1
HWB BQ22	861613	6906	2 - 214	16658		Tyr-17 to Cys-22.			H0580: 1 and L0766: 1.
HWB BN86	78313	6907	385 - 528	16659					L0748: 3 and H0580: 1.
HWB BM02	919423	6908	3 - 116	16660					H0580: 1 and I0376: 1.

HWBBL57	868349	6909	204 - 428	16661			H0580: 1 and L0763: 1.		
HWBBL03	923691	6910	50 - 217	16662	Asn-32 to Thr-39, Gly-46 to Phe-56.		H0580: 1, L0369: 1 and L0517: 1.		
HWBBF60	740125	6911	3 - 257	16663			H0580: 1 and L0754: 1.		
HWBBE52	868358	6912	150 - 365	16664	Arg-19 to Asn-33, Leu-52 to Trp-66.		AR054: 7, AR051: 4, AR050: 2 L0748: 2, H0580: 1, L0772: 1, L0771: 1, L0774: 1, L0776: 1 and L0758: 1.		
HWBBD23	675360	6913	1 - 276	16665	Arg-1 to Gly-8.		H0580: 1 and L0602: 1.		
HWBAX77	771958	6914	126 - 521	16666	Gly-7 to Leu-12, Ser-60 to Cys-66.		H0580: 1 and L0754: 1.		
HWBAT83	780976	6915	1 - 426	16667			H0580: 1 and L0745: 1.		
HWBAS96	796126	6916	1 - 186	16668	Ser-18 to Thr-23.		H0580: 1 and L0748: 1.		
HWBAR29	690422	6917	51 - 302	16669	Lys-15 to Ala-23, Ala-26 to Leu-34, Gly-46 to Cys-56.		H0580: 1 and L0740: 1.		
HWBAQ71	944080	6918	3 - 470	16670	Thr-1 to Ala-11, Thr-24 to Arg-29.		AR089: 3, AR061: 1 H0580: 1 and L0601: 1.		
HWBAQ02	919351	6919	102 - 311	16671	Cys-5 to Gln-13, Asn-24 to Arg-29.		L0779: 2 and H0580: 1.		
HWBAO50	724135	6920	202 - 402	16672	Leu-39 to Thr-44.		L0766: 2 and H0580: 1.		
HWBAO38	709490	6921	195 - 368	16673			L0748: 2 and H0580: 1.		
HWBAK65	747731	6922	277 - 140	16674	Thr-12 to Gly-19.		L0439: 3 and H0580: 1.		
HWBAJ13	975117	6923	1649 - 1440	16675			AR061: 2, AR089: 2 H0580: 1		
HWBAH72	766073	6924	227 - 469	16676			L0439: 2 and H0580: 1.		
HWBAH16	661664	6925	3 - 269	16677	Gln-9 to Asn-14.		H0580: 1, L0748: 1 and L0749: 1.		
HWBAF43	715111	6926	329 - 550	16678	Ser-27 to Arg-33, Thr-61 to Pro-67.		H0580: 1 and L0748: 1.		
HWBAF09	625401	6927	108 - 278	16679			H0580: 1 and L0766: 1.		
HWBAC02	919559	6928	1 - 135	16680	Gln-6 to Asp-21.		H0580: 1 and L0731: 1.		
HWAGV04	926759	6929	69 - 371	16681	Gly-3 to Cys-10, Leu-29 to His-34.		H0581: 1 and L0589: 1.		
HWAGQ02	953013	6930	550 - 185	16682	Cys-31 to Tyr-37,		L0766: 3, L0748: 2, L0785:		

						Lys-90 to Ser-99, Ser-102 to His-109, Gln-112 to Trp-121.			1, H0581: 1, L0763: 1, L0774: 1, L0775: 1, L0375: 1, L0806: 1, L0776: 1, L0749: 1, L0779: 1, L0752: 1, L0758: 1 and L0599: 1.		
HWAGO42	958373	6931	1 - 489	16683		Pro-24 to Val-31.			H0581: 1 and L0800: 1.		
HWAFQ10	961339	6932	733 - 930	16684					L0766: 2 and H0581: 1.		
HWAFM60	868436	6933	1 - 315	16685		Asp-7 to Asn-17, Arg-40 to His-47, Pro-80 to Cys-91.			H0581: 1 and L0766: 1.		
HWAFG12	969605	6934	70 - 417	16686		Ala-1 to Gly-10, Arg-33 to Thr-39, Phe-41 to Gly-50, Asp-59 to Gly-66, Arg-73 to Ser-80.			H0581: 1 and L0655: 1.		
HWAFE87	949950	6935	121 - 420	16687		Gly-7 to Asp-12, Glu-31 to Ser-43, Val-76 to Ser-86.			AR089: 1, AR061: 1 H0581: 1		
HWAFD56	868452	6936	98 - 217	16688		Asp-8 to Cys-15.			H0581: 1 and L0758: 1.		
HWAFD10	963323	6937	3 - 131	16689					H0581: 1 and L0662: 1.		
HWAF A47	948858	6938	110 - 358	16690		Ser-16 to Ile-22.			AR089: 4, AR061: 1 H0581: 1		
HWAF A05	930990	6939	290 - 544	16691		Gln-1 to Arg-11, Pro-33 to Arg-41, Thr-46 to Gly-52, Arg-54 to Cys-75.			L0751: 2, H0581: 1, L0794: 1 and L0752: 1.		
HWAEZ81	868460	6940	496 - 257	16692		Gln-1 to Lys-8.			H0581: 1		
HWAEZ19	874351	6941	121 - 519	16693		Ser-1 to Ile-7, Phe-27 to Lys-44.			H0581: 1		
HWAEU35	887166	6942	1 - 474	16694		Arg-22 to Arg-36.			AR051: 268, AR054: 153, AR050: 68, AR089: 54, AR061: 9 H0581: 1		
HWAE R10	838763	6943	102 - 275	16695		Glu-52 to Lys-58.			H0581: 1 and L0766: 1.		
HWAE P25	951965	6944	2 - 793	16696		Asn-11 to His-19, Gly-31 to Val-37.			H0581: 1 and L0593: 1.		

							Thr-65 to Ser-74, Lys-177 to Thr-182, Gly-187 to Asp-199.				
HWA EK27	868494	6945	357 - 578	16697			Asn-1 to Lys-6, Gly-18 to Glu-28, Ser-53 to Thr-58.			H0581: 1 and L0589: 1.	
HWA EG71	931547	6946	2 - 553	16698			Gln-60 to Ala-68, Trp-132 to Ser-138, Lys-156 to Val-163.			AR089: 6, AR061: 1 L0740: 2 and H0581: 1.	
HWA EC08	958115	6947	3 - 716	16699			Leu-32 to Pro-38, Leu-124 to Ala-135.			AR061: 0, AR089: 0 H0581: 1, L0803: 1, L0664: 1, L0439: 1 and L0751: 1. L0759: 4, H0581: 1, L0055: 1, L0773: 1 and L0777: 1.	
HWADQ35	868526	6948	824 - 630	16700						H0581: 1, L0748: 1 and L0754: 1.	
HWADO27	682458	6949	222 - 380	16701			Lys-45 to Ser-53.			H0581: 1, L0661: 1 and L0750: 1.	
HWADN42	713272	6950	188 - 391	16702			Ser-10 to Gln-18.			H0581: 1 and L0439: 1.	
HWADM84	782685	6951	209 - 373	16703						AR050: 65, AR054: 52, AR051: 41 H0581: 1	
HWADI46	891149	6952	2 - 265	16704			Gly-31 to Lys-43.			L0748: 2 and H0581: 1. L0794: 2, L0665: 2, H0581: 1, L0438: 1, L0439: 1, L0749: 1, L0757: 1 and L0758: 1.	
HWADE25	677594	6953	314 - 427	16705						H0581: 1 and L0596: 1.	
HWADD18	665173	6954	83 - 349	16706						AR089: 6, AR061: 2 H0581: 1 and L0608: 1. H0581: 1 and L0731: 1. H0581: 1 and L0745: 1. H0581: 1 and L0748: 1. H0581: 1, L0748: 1 and L0581: 1.	
HWACZ56	733002	6955	3 - 326	16707			Glu-1 to Lys-31, Ser-56 to Arg-61.				
HWACY70	756888	6956	190 - 552	16708							
HWACS69	774914	6957	391 - 552	16709							
HWACQ54	729166	6958	80 - 208	16710							
HWACJ56	733013	6959	205 - 414	16711			Pro-16 to Ile-23.				
HWACI46	718711	6960	383 - 538	16712							
HWACH03	923374	6961	177 - 350	16713			Gly-41 to Ser-46.			H0581: 1, L0748: 1 and H0581: 1.	

HWACD30	691565	6962	34 - 249	16714	Pro-5 to Arg-19.	L0749: 1.		
HWABY68	927387	6963	2 - 382	16715		L0747: 3 and H0581: 1. L0777: 2 and H0581: 1.	19q13.3	113900, 126340, 126391, 130410, 134790, 138570, 160900, 173850, 258501, 600040, 602225, 602225
HWABV67	751409	6964	145 - 294	16716		H0581: 1 and L0748: 1.		
HWABV34	868535	6965	107 - 280	16717		H0581: 1 and L0747: 1.		
HWABP20	669486	6966	160 - 384	16718	Lys-21 to Arg-27, Ala-29 to Ala-35.	L0748: 2 and H0581: 1.		
HWABP19	951277	6967	33 - 254	16719		H0581: 1 and L0764: 1.		
HWABP02	919442	6968	322 - 423	16720		L0766: 2, H0581: 1 and L0746: 1.		
HWABI13	656767	6969	360 - 602	16721		L0766: 2 and H0581: 1.		
HWABH68	929275	6970	3 - 212	16722		H0581: 1 and L0646: 1.		
HWABG11	949088	6971	1 - 486	16723	Phe-13 to Ile-19.	AR089: 8, AR061: 2 H0581: 1		
HWABD52	726510	6972	4 - 207	16724		L0777: 2 and H0581: 1.		
HWAAAY79	791452	6973	45 - 329	16725	Thr-32 to His-38, Thr-46 to Asn-55.	H0581: 1 and L0598: 1.		
HWAAYS1	973237	6974	48 - 185	16726	Arg-18 to Asn-26.	H0581: 1		
HWAAAX48	721442	6975	144 - 377	16727	Pro-10 to Ser-22, Gly-57 to Cys-62.	H0581: 1, L0805: 1, L0776: 1, L0791: 1, L0663: 1 and L0439: 1.		
HWAAW65	779578	6976	594 - 809	16728	Gly-1 to Arg-14, Leu-32 to Gly-37, Pro-41 to Gly-46.	H0581: 1 and L0748: 1.		
HWAAQ76	887772	6977	3 - 590	16729	His-3 to Ile-9, Leu-13 to Leu-20, Ala-47 to Ser-54, Asn-86 to Pro-93.	AR050: 94, AR051: 77, AR054: 68 L0758: 2, H0581: 1 and L0779: 1.		
HWAAAM30	691878	6978	106 - 336	16730	Asn-36 to Glu-42, Pro-53 to Asp-58.	H0581: 1 and L0731: 1.		
HWAAAL70	757035	6979	3 - 443	16731		H0581: 1 and L0741: 1.		



HWAAl41	712141	6980	117 - 383	16732	Arg-18 to Phe-32.	H0581: 1 and L0748: 1.	
HWAAF60	751037	6981	2 - 226	16733		H0581: 1 and L0759: 1.	
HWAAE31	841973	6982	105 - 248	16734	Arg-1 to Phe-9, Arg-23 to Gly-31.	H0581: 1, L0766: 1 and L0599: 1.	
HWAB06	935131	6983	181 - 429	16735	Ser-4 to Ala-12, His-21 to Leu-27, Pro-30 to Glu-35.	L0452: 1 and H0581: 1.	
HUUDR34	944903	6984	2 - 658	16736	Lys-6 to Met-14, Lys-60 to Leu-65, Asp-71 to Lys-76, Arg-78 to Ser-88, Pro-96 to His-101, Glu-109 to Glu-123, Thr-138 to Ala-144, Arg-173 to Asp-180.	L0462: 2, H0656: 1 and L0617: 1.	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040
HUUCS12	969325	6985	403 - 687	16737	Ser-6 to Pro-13.	L0748: 3 and H0656: 1.	
HUUCJ02	940813	6986	594 - 121	16738	Gly-11 to Ile-17, Gln-57 to Gly-64.	H0656: 1 and L0163: 1.	
HUJDJ03	922441	6987	189 - 578	16739	Arg-54 to Ser-61, Pro-79 to Ser-90.	L0523: 2 and H0650: 1.	
HUJDE05	967231	6988	21 - 569	16740	Lys-2 to Ile-11, Asp-76 to Gly-83.	H0650: 1 and L0758: 1.	5q31.1  131400, 147061, 147575, 147575, 147575, 153455, 159000, 181460, 600807, 601596, 602089
HUJCN12	969331	6989	316 - 465	16741		H0650: 1 and L0142: 1.	
HUJBQ04	926196	6990	1 - 120	16742		H0650: 1	
HUJBP01	914512	6991	1 - 330	16743		H0650: 1	
HTYSK94	501001	6992	19 - 285	16744	Arg-28 to Gly-36, Pro-73 to Tyr-80.	H0116: 1	
HTYSK65	500999	6993	126 - 338	16745	His-45 to Tyr-50.	H0116: 1	
HTYSK23	575458	6994	112 - 258	16746		H0116: 1	
HTYND11	965061	6995	93 - 311	16747		L0748: 1 and S0452: 1.	
HTYNC04	926906	6996	167 - 66	16748	Leu-16 to Asn-31.	L0021: 1, L0779: 1 and S0452: 1.	

HTYAA83	537277	6997	424 - 185	16749	Ala-4 to Gly-13.	H0058: 1	
HTXSV06	933377	6998	267 - 461	16750	Gln-20 to Gln-26.	H0556: 1 and L0367: 1.	
HTXSH08	957886	6999	266 - 463	16751		L0749: 4, L0748: 2, L0777: 2, H0556: 1 and L0471: 1.	
HTXSC11	965536	7000	168 - 416	16752	Lys-28 to Met-34, Glu-40 to Ile-45.	H0556: 1	
HTXSA04	926338	7001	174 - 413	16753		H0556: 1, L0783: 1 and L0809: 1.	
HTXRS08	957919	7002	1 - 183	16754	Pro-8 to Arg-19.	H0556: 1 and L0366: 1.	
HTXRA02	918089	7003	2 - 205	16755	Pro-7 to Gly-17.	H0556: 1, L0748: 1 and L0780: 1.	
HTXQS11	965084	7004	1 - 447	16756	Val-20 to Ser-37, Asp-110 to Arg-125.	H0556: 1, L0643: 1 and L0749: 1.	
HTXQO07	952064	7005	1 - 231	16757		H0556: 1 and L0749: 1.	
HTXQM71	869147	7006	192 - 425	16758	Leu-50 to Ile-55.	H0556: 1 and L0766: 1.	
HTXQM07	952067	7007	311 - 445	16759		H0556: 1 and L0805: 1.	
HTXPX72	916162	7008	132 - 458	16760		H0556: 1 and L0748: 1.	
HTXPV03	922905	7009	416 - 664	16761		H0556: 1 and L0745: 1.	
HTXOR95	869249	7010	380 - 592	16762		H0556: 1 and L0748: 1.	
HTXOO15	869261	7011	55 - 273	16763	Pro-49 to Thr-55.	AR089: 1, AR061: 0 H0556: 1 and L0752: 1.	
HTXOO12	872368	7012	30 - 395	16764		H0556: 1 and L0761: 1.	12
HTXOK51	869265	7013	147 - 527	16765	Ser-76 to Gly-82, Gly-89 to Thr-97.	L0362: 2 and H0556: 1.	
HTXNJ60	869299	7014	354 - 677	16766	Pro-42 to Arg-47.	H0556: 1 and L0766: 1.	
HTXNG04	926992	7015	48 - 557	16767	Pro-20 to Ala-25, Lys-53 to Arg-63, Pro-80 to Gly-89, Ser-139 to Asp-156.	L0749: 5, L0748: 3 and H0556: 1.	
HTXNF11	869300	7016	309 - 593	16768		H0556: 1 and L0748: 1.	
HTXNA19	933848	7017	562 - 792	16769		H0556: 1 and L0439: 1.	
HTXNZ01	915250	7018	107 - 223	16770		H0556: 1 and L0562: 1.	
HTXMU37	948611	7019	1 - 204	16771		L0748: 2 and H0556: 1.	
HTXMR30	869312	7020	332 - 577	16772		L0758: 2 and H0556: 1.	
HTXMJ82	841875	7021	2 - 424	16773	Arg-15 to Ser-22,	H0556: 1 and L0596: 1.	

HTXMC72	875290	7022	127 - 399	16774	Ala-30 to Leu-37, Pro-44 to Lys-51, Leu-53 to Arg-65, Pro-123 to Trp-132.			
HTXLS08	958357	7023	1 - 1152	16775	Asp-1 to Gly-8, Leu-14 to Ser-20.		H0556: 1 and L0748: 1. L0766: 9, L0761: 8, L0779: 3, L0809: 2, L0752: 2, H0556: 1, L0772: 1, L0794: 1 and L0745: 1.	
HTXLN70	756630	7024	409 - 663	16776			H0556: 1 and L0748: 1.	
HTXLI10	963602	7025	235 - 471	16777			H0556: 1 and L0794: 1.	
HTXKP30	487401	7026	138 - 335	16778			H0556: 1	
	494070	9612	164 - 3	19364	Asp-13 to Phe-19, Arg-46 to Leu-54.			
HTXKN65	869345	7027	71 - 241	16779	Met-1 to Asn-8, Gln-19 to Ser-24.		H0556: 1 and L0369: 1.	
HTXKM37	869347	7028	24 - 236	16780	Lys-8 to Pro-19.		H0556: 1 and L0768: 1.	
HTXKM24	677101	7029	117 - 284	16781	Lys-6 to Thr-11.		H0556: 1 and L0748: 1.	
HTXKK96	796330	7030	321 - 515	16782	Gly-51 to Pro-65.		H0556: 1 and L0596: 1.	
HTXKK31	697838	7031	208 - 447	16783	Ser-74 to Ile-80.		H0556: 1 and L0756: 1.	
HTXKF02	919683	7032	3 - 251	16784	Leu-2 to Ser-14, Ser-26 to Ala-34, Pro-43 to Gly-49.		H0556: 1, L0743: 1 and L0744: 1.	125852, 126452, 126452, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 600856, 601680, 602631, 602631
HTXKC64	746471	7033	203 - 481	16785	Ile-9 to Asn-18.		H0556: 1 and L0748: 1.	
HTXJX77	870446	7034	94 - 606	16786	Gln-25 to Thr-30.		H0556: 1 and L0596: 1.	

HTXJR61	741746	7035	941 - 693	16787	Ser-45 to Lys-54. Lys-1 to Leu-6.	L0439: 3, H0556: 1 and L0747: 1.		
HTXJP17	663123	7036	77 - 334	16788	Arg-24 to Gly-32, Asp-48 to Ser-55, Pro-58 to Glu-64, Glu-69 to His-86.	L0747: 3, L0758: 2, H0556: 1 and L0515: 1.		
HTXJO80	871594	7037	329 - 454	16789		L0748: 2, H0556: 1, L0637: 1 and L0749: 1.		
HTXJO78	773508	7038	145 - 282	16790	Leu-7 to Gly-18, Trp-20 to Asn-29.	H0556: 1 and L0755: 1.		
HTXJN39	566290	7039	25 - 240	16791	Ala-4 to Glu-9, Asp-31 to Ser-36, Asp-44 to Gln-53.	AR054: 19, AR050: 2, AR051: 1		
HTXJK20	423763	7040	122 - 349	16792	Lys-1 to Arg-14, Thr-38 to Cys-50.	H0556: 1 and L0592: 1. H0556: 1 and L0591: 1.		
HTXJC08	957757	7041	737 - 450	16793		AR054: 16, AR050: 10, AR051: 2 H0556: 1		
	972481	9613	410 - 727	19365	Gly-23 to Arg-29, Gly-33 to Ser-42, His-51 to Thr-56, Pro-67 to Ser-79, Ser-84 to Arg-91, Pro-100 to Gly-106.			
HTXJA76	767696	7042	222 - 386	16794	Ser-6 to Thr-12.	H0556: 1		
HTXJA32	699152	7043	54 - 344	16795	Ser-2 to Met-7, Pro-18 to Pro-25.	L0599: 2 and H0556: 1.		
HTXGH41	712566	7044	4 - 246	16796	Pro-3 to Gln-8, Val-35 to Asp-40.	H0265: 1 and L0749: 1.		
HTXGE85	783418	7045	1 - 462	16797		L0743: 3, L0744: 2 and H0265: 1.		
HTXFR89	790276	7046	2 - 292	16798	Arg-4 to Cys-16, Pro-18 to Pro-38, Asn-86 to Lys-92.	H0265: 1 and L0750: 1.		
HTXFN90	537392	7047	87 - 374	16799	Gly-26 to Leu-31,	H0265: 1		

HTXFEN73	824543	7048				Gln-35 to Gly-41.				
HTXFEN63	745316	7049	82 - 285	16800					H0265: 1	
HTXFEN53	537391	7050	96 - 308	16801					H0265: 1	
HTXFEN23	537393	7051	42 - 305	16802					H0265: 1	
HTXFH43	537397	7052	37 - 207	16803					H0265: 1	
			28 - 240	16804		Pro-7 to Asn-13, Pro-19 to Tyr-26, Arg-48 to Phe-55.			H0265: 1	
HTXFH20	537398	7053	17 - 217	16805		Lys-11 to Cys-21, Thr-41 to Pro-47, Arg-55 to Thr-60.			H0265: 1	
HTXFG29	689833	7054	79 - 210	16806					H0265: 1	
HTXFF96	796309	7055	543 - 379	16807		Trp-8 to Ala-13, Gly-22 to Ser-28, Met-38 to Pro-45.			H0265: 1	
	796314	9614	133 - 321	19366		Lys-7 to Gly-14, His-16 to Asp-22.				
HTXFF93	934438	7056	370 - 558	16808		Arg-6 to Ser-11, Val-36 to Ser-43.			H0265: 1 and L0748: 1.	
HTXEY18	869406	7057	132 - 392	16809		Pro-28 to Gly-34.			H0265: 1	
HTXEX83	780277	7058	1 - 342	16810					H0265: 1 and L0748: 1.	
HTXEE90	789161	7059	120 - 368	16811		Ser-8 to Trp-19, Glu-75 to Pro-83.			L0740: 2 and H0265: 1.	
HTXEC96	796561	7060	260 - 132	16812					H0265: 1 and L0748: 1.	
HTXEA45	723401	7061	2 - 301	16813		Pro-2 to Ser-11, Arg-36 to Ser-51.			H0265: 1 and L0596: 1.	
HTXDZ56	733641	7062	155 - 424	16814		Tyr-39 to Tyr-45.			L0748: 2 and H0265: 1.	
HTXDW32	699559	7063	810 - 1070	16815		Ser-58 to Ile-66.			H0265: 1 and L0749: 1.	
HTXDJ77	772473	7064	2 - 202	16816		Thr-13 to Thr-19.			H0265: 1 and L0750: 1.	
HTXDD24	888612	7065	1 - 276	16817					AR054: 15, AR050: 4, AR051: 3 H0265: 1	
HTXCW50	724650	7066	3 - 422	16818		Glu-1 to Asp-9, Lys-29 to Lys-46.			L0809: 4, L0803: 2, L0777: 2, H0265: 1, L0774: 1, L0651: 1, L0749: 1 and L0780: 1.	

HTXCS84	783262	7067	5 - 82	16819	Glu-18 to Ala-24.	H0265: 1	
HTXBT88	529663	7068	17 - 286	16820	Val-1 to Ser-12, Gly-14 to Thr-22, Arg-63 to Ala-71.	H0265: 1	
HTXAW03	921906	7069	92 - 376	16821		H0265: 1, L0769: 1, L0509: 1, L0439: 1, L0747: 1 and L0755: 1.	
HTXAK96	796612	7070	360 - 485	16822	Lys-1 to Trp-8.	H0265: 1 and L0748: 1.	
HTXAJ34	707050	7071	196 - 318	16823	Tyr-13 to Phe-18.	H0265: 1 and L0754: 1.	
HTWLI77	839177	7072	1 - 411	16824	Pro-30 to Pro-38.	H0576: 1	
HTWLF58	869478	7073	131 - 433	16825	Pro-51 to Gly-58.	L0766: 1, H0576: 1 and L0779: 1.	
HTWLD61	741610	7074	3 - 218	16826	Ala-6 to Met-16, Pro-39 to Lys-45.	H0576: 1	
HTWLD10	964195	7075	85 - 189	16827		L0803: 1 and H0576: 1.	
HTWLC51	725533	7076	94 - 201	16828		L0748: 2, L0766: 1, H0576: 1 and L0779: 1.	
HTWKZ86	785318	7077	121 - 279	16829	Lys-15 to Ser-20, Glu-28 to Trp-36, Lys-38 to Lys-49.	H0576: 1	
HTWKZ46	718872	7078	160 - 354	16830	Ala-50 to Asn-63.	H0576: 1	
HTWKZ35	494833	7079	2 - 127	16831		H0576: 1	
HTWKZ28	686254	7080	177 - 395	16832	Ser-1 to Val-10, Gln-20 to Ser-29, Pro-54 to Cys-67.	H0576: 1	
HTWKZ27	812689	7081	142 - 303	16833		H0576: 1	
HTWKZ15	659934	7082	233 - 367	16834	Leu-7 to Leu-13, Pro-15 to Cys-20.	H0576: 1	
HTWKT41	712142	7083	25 - 189	16835	Trp-14 to Ser-25.	L0766: 1, H0576: 1 and L0754: 1.	
HTWKF34	703863	7084	174 - 320	16836		L0748: 2 and H0576: 1.	
HTWKB07	952841	7085	91 - 321	16837	Asp-25 to Lys-30.	L0763: 1 and H0576: 1.	
HTWJY36	708338	7086	12 - 251	16838	Pro-27 to Ser-36, Gly-73 to Leu-80.	L0761: 2, L0754: 2, L0766: 1, H0576: 1, L0779: 1, L0780: 1 and L0755: 1.	107280, 107280, 107400, 107400, 122500, 186960, 245200, 601841

HTWJH08	790185	7087	85 - 207	16839	Gly-3 to Cys-12, Lys-33 to Lys-41.	AR061: 1, AR089: 1 H0576: 1		
	846554	9615	85 - 207	19367	Gly-3 to Cys-12, Lys-33 to Lys-41.			
HTWJF89	805706	7088	45 - 323	16840	Glu-1 to Ser-9, Ser-30 to Ala-36, Gln-61 to Tyr-66.	H0576: 1 and L0748: 1.		
HTWJF50	911448	7089	916 - 1434	16841	Thr-12 to Trp-20, Pro-29 to Arg-35, Leu-51 to Arg-58, Arg-100 to Arg-108, Cys-120 to Arg-125, Pro-150 to Arg-163.	L0766: 1 and H0576: 1.		
HTWJA79	559919	7090	2 - 226	16842	Leu-38 to Lys-43, Ser-52 to Cys-58.	H0576: 1		
HTWFQ19	586124	7091	2 - 196	16843		AR054: 180, AR050: 146, AR051: 125, AR089: 10, AR061: 4 H0436: 1		
HTWFM90	582285	7092	59 - 187	16844	Leu-16 to Ser-29.	H0436: 1		
HTWFM89	786805	7093	110 - 301	16845	Gly-1 to Tyr-13, Arg-26 to Lys-39.	H0436: 1		
HTWFM79	841983	7094	19 - 186	16846	Ser-43 to Tyr-49.	L0766: 1 and H0436: 1.		
HTWFM71	760303	7095	18 - 242	16847	Leu-7 to Leu-14, Pro-16 to Glu-23, Thr-36 to Glu-51.	H0436: 1		
HTWFM48	721587	7096	1 - 114	16848	Val-14 to Leu-27.	H0436: 1		
HTWFJ71	869491	7097	346 - 609	16849	Gly-38 to Glu-48.	L0770: 1 and H0436: 1.		
HTWFH75	767251	7098	352 - 498	16850		H0436: 1 and L0748: 1.		
HTWFH73	761686	7099	239 - 460	16851		H0436: 1 and L0777: 1.		
HTWFH42	713667	7100	395 - 523	16852		H0436: 1, L0748: 1 and L0749: 1.		
HTWFG29	800193	7101	1 - 93	16853	Phe-13 to Glu-20.	H0436: 1		
HTWFD63	745010	7102	1 - 183	16854	Lys-21 to Lys-27, Arg-32 to Ser-37.	L0748: 2 and H0436: 1.		
HTWEY89	864553	7103	2 - 229	16855	Met-50 to Glu-63,	H0436: 1 and L0740: 1.	8ql3	122560, 214400.

HTWEO90	788859	7104	316 - 522	16856	Ser-70 to Pro-76.	L0745: 9 and H0436: 1.	602476
HTWEJ74	765512	7105	64 - 228	16857		H0436: 1 and L0756: 1.	
HTWEH76	876853	7106	319 - 639	16858	Val-1 to Thr-16.	H0436: 1 and L0601: 1.	
HTWEC75	767264	7107	426 - 581	16859	Lys-1 to Glu-10, Leu-15 to Leu-22, Glu-35 to Asn-41.	L0745: 4, L0750: 2 and H0436: 1.	
HTWDR91	869526	7108	130 - 447	16860		H0436: 1	
HTWDO06	935644	7109	211 - 345	16861	Leu-23 to Gly-32.	L0809: 1 and H0436: 1.	
HTWDK68	753086	7110	253 - 399	16862	Met-36 to Asn-43.	H0436: 1 and L0608: 1.	
HTWDJ42	713869	7111	105 - 269	16863	Gly-5 to His-13, Lys-22 to Glu-27.	H0436: 1 and L0748: 1.	
HTWDI49	723047	7112	138 - 281	16864	Ser-24 to Trp-32.	L0745: 2, H0436: 1 and L0780: 1.	
HTWDE70	844831	7113	188 - 358	16865		H0436: 1	
	859421	9616	123 - 239	19368			
HTWCL86	575978	7114	134 - 229	16866		H0436: 1	
HTWCJ08	959591	7115	201 - 413	16867	Asn-22 to Asp-27, Leu-31 to Lys-36.	H0436: 1 and L0758: 1.	
HTWCG06	935642	7116	215 - 319	16868	Thr-1 to Pro-9.	L0766: 1 and H0436: 1.	
HTWCD06	935646	7117	387 - 542	16869		L0517: 1 and H0436: 1.	
HTWCB69	729244	7118	27 - 290	16870	Gly-32 to Gly-38, Gly-41 to Gln-53, His-58 to Phe-69.	H0436: 1 and L0748: 1.	
HTWBW72	772117	7119	244 - 2	16871		H0436: 1 and L0439: 1.	
HTWBV33	594496	7120	1053 - 769	16872		H0436: 1	
	701754	9617	344 - 189	19369			
	813291	9618	299 - 517	19370	Pro-37 to His-49, Thr-56 to Lys-64.		
HTWBV03	869549	7121	483 - 650	16873		L0766: 5, H0436: 1 and L0740: 1.	139330, 139360, 150250, 164500, 182280, 227646, 261510, 600163, 600971, 601154, 601226, 601267, 601373



HTWBT62	742588	7122	26 - 208	16874	Glu-6 to Lys-13, Thr-29 to Glu-39, Arg-48 to Gln-59.	H0436: 1 and L0748: 1.		
HTWBP67	751752	7123	102 - 221	16875		H0436: 1 and L0747: 1.		
HTWBL08	959619	7124	221 - 418	16876	Asn-6 to Ser-15.	H0436: 1 and L0747: 1.		
HTWBI04	922175	7125	132 - 362	16877	Pro-12 to Gly-20.	L0598: 1 and H0436: 1.		
HTWBF27	683546	7126	82 - 360	16878		H0436: 1 and L0752: 1.		
HTWBE63	745194	7127	181 - 309	16879	Pro-1 to Gly-12.	H0436: 1 and L0753: 1.		
HTWBD84	783120	7128	232 - 477	16880	Leu-61 to His-66.	H0436: 1 and L0748: 1.		
HTWBD61	604245	7129	285 - 569	16881		H0436: 1		
	824129	9619	418 - 167	19371	Ala-49 to Glu-56.			
HTWAM49	722141	7130	235 - 444	16882		H0187: 1 and L0748: 1.		
HTWAM48	518825	7131	33 - 308	16883	Ser-59 to Glu-71.	L0605: 2 and H0187: 1.		
HTWAM25	677506	7132	744 - 289	16884	Thr-1 to Lys-11.	L0758: 5, L0794: 4, L0803: 3, L0744: 2, L0756: 2, L0435: 1, L0804: 1, L0806: 1, L0805: 1, L0776: 1, L0809: 1, L0789: 1, H0187: 1, L0439: 1, L0751: 1, L0779: 1 and L0591: 1.		
HTWAJ11	967845	7133	261 - 443	16885	His-21 to Pro-27.	L0759: 2, L0657: 1 and H0187: 1.		
HTWAE31	725127	7134	3 - 191	16886		H0187: 1 and L0439: 1.		
HTWAB85	522346	7135	89 - 307	16887		H0187: 1		
HTWAB65	533745	7136	151 - 429	16888	Tyr-18 to Lys-31, Ser-50 to Arg-59.	H0187: 1		
HTWAB57	735153	7137	24 - 191	16889	Lys-15 to Ile-20.	H0187: 1		
HTWAB46	522817	7138	87 - 218	16890		H0187: 1		
HTWAB42	714291	7139	23 - 217	16891	Ser-1 to Asp-10, Lys-36 to Glu-43.	H0187: 1		
HTWAB32	524291	7140	187 - 321	16892	Leu-7 to Leu-13, Pro-15 to Cys-20, Pro-23 to Cys-28.	H0187: 1		
HTWAB27	522796	7141	54 - 134	16893		H0187: 1		
HTWAB18	522794	7142	124 - 207	16894		H0187: 1		
HTWAA90	789271	7143	196 - 426	16895	Val-3 to Thr-10,	H0187: 1		

HTWAA79	869563	7144	214 - 405	16896	Glu-31 to Leu-40.	H0187: 1	
HTWAA42	522603	7145	2 - 85	16897	Ser-20 to Leu-28.	H0187: 1	
HTWAA32	522797	7146	281 - 439	16898		H0187: 1	
HTWAA31	915276	7147	77 - 337	16899		H0187: 1	
HTWAA22	425133	7148	48 - 287	16900	Glu-39 to Thr-47.	H0187: 1	
HTWAA17	667166	7149	46 - 276	16901	Ser-17 to Lys-32.	H0187: 1	
HTUAE10	968597	7150	237 - 404	16902		H0185: 1, L0509: 1, L0607: 1 and L0493: 1.	
HTUAA93	522950	7151	1 - 267	16903		H0185: 1	
HTUAA79	773978	7152	196 - 360	16904		H0185: 1	
HTUAA63	522080	7153	3 - 134	16905		H0185: 1	
HTUAA59	556958	7154	151 - 318	16906	Pro-33 to Ser-38.	H0185: 1	
HTUAA55	522805	7155	74 - 226	16907	Thr-4 to Asp-10.	H0185: 1	
HTUAA51	725949	7156	216 - 317	16908	Leu-5 to Phe-11.	L0740: 2 and H0185: 1.	
HTUAA45	526606	7157	3 - 203	16909	Gly-39 to Ile-46.	H0185: 1	
HTUAA42	694535	7158	38 - 115	16910	Gln-15 to Cys-23.	H0185: 1	
HTUAA32	522807	7159	95 - 187	16911	Gln-15 to Phe-20.	H0185: 1	
HTUAA25	575308	7160	168 - 452	16912		L0748: 2 and H0185: 1.	
HTUAA23	575319	7161	165 - 371	16913	Arg-6 to Leu-15, Leu-23 to Gly-28.	H0185: 1	
HTUAA21	575312	7162	2 - 343	16914		H0185: 1	
HTUAA11	967919	7163	57 - 173	16915		H0185: 1	
HTUAA06	960761	7164	229 - 384	16916	Asp-1 to Glu-9, Gly-35 to Gly-42.	H0185: 1	
HTUAA02	921277	7165	178 - 2	16917	Ser-1 to Thr-9, Glu-16 to Leu-22.	H0185: 1	
HTSHI55	576030	7166	129 - 233	16918	His-3 to Tyr-10, Lys-29 to Asn-34.	H0087: 1	
HTSHC81	778008	7167	224 - 370	16919		H0087: 1 and L0602: 1.	14q32.3-qter
HTSHB38	709445	7168	3 - 236	16920	Pro-10 to Ala-16.	L0589: 2 and H0087: 1.	
HTSHB18	666569	7169	20 - 142	16921	Glu-18 to Lys-23, Ser-36 to Arg-41.	H0087: 1, L0438: 1, L0740: 1 and L0758: 1.	
HTSGZ92	975082	7170	1 - 297	16922	Gln-3 to Thr-9.	H0087: 1 and L0809: 1.	
HTSGQ88	576077	7171	3 - 245	16923	Glu-24 to Arg-38.	H0087: 1	

HTSGQ42	576078	7172	1 - 282	16924	Ala-69 to Arg-81. Gly-1 to Glu-6, Pro-15 to Pro-23, Ser-29 to Glu-46, Leu-48 to Asp-66.	H0087: 1		
HTSGM53	728289	7173	199 - 420	16925	Pro-21 to Lys-28.	L0748: 2 and H0087: 1.		
HTSGL89	787027	7174	336 - 539	16926		H0087: 1 and L0753: 1.		
HTSFU94	793056	7175	1 - 267	16927	Asp-64 to Ser-76, Thr-78 to Ala-86.	L0747: 3, H0087: 1 and L0731: 1.		
HTSFF64	747003	7176	2 - 412	16928	Ala-1 to Pro-9, Pro-45 to Pro-55, Pro-63 to Cys-74, Pro-85 to Val-98.	H0087: 1, L0744: 1 and L0731: 1.		
HTSEX79	524280	7177	20 - 253	16929	Gln-16 to Phe-30.	H0087: 1		
HTSEW02	920963	7178	85 - 264	16930	Ser-53 to Phe-59.	L0803: 3, H0087: 1, L0754: 1 and L0749: 1.		
HTSAA20	836021	7179	156 - 350	16931		H0087: 1 and L0748: 1.		
HTOJZ05	869900	7180	2 - 316	16932		H0264: 1		
	869903	9620	472 - 768	19372	Pro-7 to Pro-17.			
HTOJV25	456941	7181	2 - 199	16933	Asn-1 to Ile-11.	H0264: 1		
HTOJT60	740599	7182	185 - 304	16934		H0264: 1 and L0754: 1.		
HTOJN69	869925	7183	2 - 187	16935		H0264: 1 and L0748: 1.		
HTOJM95	795719	7184	506 - 315	16936		H0264: 1		
	796022	9621	66 - 260	19373				
HTOJL36	866492	7185	327 - 662	16937	Ser-9 to His-14, Gly-40 to Thr-46.	H0264: 1		
HTOJF70	457041	7186	208 - 408	16938	Glu-30 to Asp-36.	H0264: 1 and L0748: 1.	22q13.31	250100, 250800, 250800
HTOJB05	932423	7187	1 - 258	16939	Ser-24 to Asp-31.	H0264: 1, L0748: 1 and L0745: 1.		
HTOIZ49	586144	7188	28 - 219	16940		AR054: 35, AR050: 33, AR051: 28		
						H0264: 1		
HTOIX57	735004	7189	156 - 341	16941	Asn-36 to His-48.	L0748: 2 and H0264: 1.		
HTOIQ30	584928	7190	252 - 407	16942		H0264: 1 and L0749: 1.		
HTOIL74	765840	7191	1 - 384	16943	Thr-53 to Pro-58,	H0264: 1 and L0747: 1.		

							His-103 to Leu-109, Gln-112 to Trp-126.				
HTOIK90	557829	7192	130 - 273	16944			Gln-14 to Tyr-22.			H0264: 1	
HTOIJ84	783212	7193	342 - 500	16945			Gln-1 to Arg-8.			L0754: 2 and H0264: 1.	
HTOIH68	753595	7194	201 - 371	16946			Pro-11 to Gly-16.			H0264: 1 and L0605: 1.	
HTOIH09	961168	7195	59 - 190	16947						S0005: 1 and H0264: 1.	
HTOIF08	959992	7196	162 - 488	16948			Pro-1 to Arg-10.			L0459: 1, H0264: 1, L0744: 1 and L0752: 1.	
HTOIA89	787088	7197	491 - 252	16949			Lys-1 to Lys-7.			H0264: 1 and L0748: 1.	
HTOLA82	844319	7198	41 - 286	16950			Arg-44 to Gly-59.			AR061: 4, AR089: 2 H0264: 1 and L0754: 1.	
HTOHZ59	869950	7199	26 - 355	16951			Ser-10 to Glu-16, Asp-28 to Pro-36.			H0264: 1, L0517: 1 and L0596: 1.	
HTOHX62	537358	7200	3 - 92	16952			Glu-1 to Ile-15.			AR051: 11, AR054: 1, AR050: 1 H0264: 1	
HTOHT93	791459	7201	162 - 440	16953			Pro-64 to Thr-70.			H0264: 1 and L0366: 1.	
HTOHR03	924976	7202	6 - 329	16954			Arg-13 to Gln-21, Phe-25 to Ser-33, Pro-85 to Lys-92.			L0794: 2 and H0264: 1.	
HTOHN89	956264	7203	167 - 427	16955			Asn-42 to Lys-54.			H0264: 1, L0748: 1 and L0749: 1.	
HTOHI14	659280	7204	119 - 478	16956						H0264: 1	
HTOHH78	963216	7205	544 - 888	16957			Thr-4 to Cys-15, Glu-31 to Arg-36, Gln-68 to Trp-80, Ser-98 to Glu-105.			L0601: 2 and H0264: 1.	
HTOHG68	964961	7206	1 - 183	16958			Ser-10 to Pro-19, Thr-23 to Arg-35, Asn-36 to Arg-61.			H0264: 1 and L0753: 1.	
HTOGU88	558488	7207	100 - 285	16959						H0264: 1	
HTOGU78	529798	7208	52 - 138	16960						H0264: 1	
HTOGU77	523533	7209	40 - 132	16961			Ser-1 to Ser-7.			H0264: 1	
HTOGC91	790438	7210	308 - 463	16962						H0264: 1 and L0439: 1.	
HTOFV57	529614	7211	35 - 184	16963			Asn-1 to Glu-14.			H0264: 1	
HTOFV08	960203	7212	1 - 150	16964			Ala-11 to Tyr-16.			H0264: 1	

						Lys-43 to Pro-50.			
HTOFU55	732454	7213	77 - 196	16965		Glu-9 to Tyr-16.			H0264: 1 and L0749: 1.
HTOFT20	527938	7214	1 - 60	16966		Pro-15 to Leu-20.			H0264: 1
HTOFS74	765918	7215	46 - 174	16967					H0264: 1 and L0599: 1.
HTOFO18	911756	7216	1179 - 1376	16968		Pro-1 to Trp-13.			H0264: 1
	911956	9622	980 - 1156	19374		Asn-25 to Leu-34.			
HTOFC06	960546	7217	84 - 266	16969					H0264: 1 and L0803: 1.
HTOEX28	936543	7218	280 - 513	16970		Arg-15 to Gly-22.			H0264: 1 and L0747: 1.
HTOEV91	509938	7219	268 - 38	16971		Pro-11 to Tyr-16, Thr-24 to Ser-35.			H0264: 1
	534071	9623	581 - 408	19375		Thr-31 to Gly-36.			
HTOET61	742164	7220	323 - 445	16972					H0264: 1 and L0766: 1.
HTOEE28	685375	7221	83 - 259	16973					H0264: 1
	869988	9624	306 - 530	19376					
HTODM08	960113	7222	2 - 400	16974		Leu-12 to Phe-18.			H0264: 1 and L0755: 1.
HTODL10	968395	7223	1 - 282	16975		Ser-4 to Glu-14, Gln-16 to Ala-24.			H0264: 1 and L0601: 1.
HTODD59	738532	7224	287 - 400	16976		Pro-3 to Gln-11.			H0264: 1 and L0754: 1.
HTODA31	698400	7225	56 - 436	16977		Gln-4 to Ala-19, Ser-63 to Asn-80, Glu-104 to Ile-110, Pro-121 to Lys-127.			L0777: 2 and H0264: 1.
HTOCK85	521944	7226	1 - 201	16978					H0272: 1
HTOCK73	870004	7227	103 - 351	16979		Arg-12 to Tyr-19, Tyr-27 to Thr-33, Asn-62 to Ser-71.			H0272: 1
HTOCK14	529958	7228	2 - 298	16980					H0272: 1
HTOCK03	925368	7229	2 - 124	16981					H0272: 1
HTOCA55	732469	7230	20 - 148	16982		Phe-21 to Lys-33.			H0272: 1
HTOBE60	742315	7231	281 - 469	16983					H0272: 1 and L0748: 1.
HTOBC63	530283	7232	2 - 190	16984		Ile-1 to Asn-6, Gly-10 to Lys-29.			H0272: 1
HTOBC26	870011	7233	1 - 159	16985					H0272: 1
HTOBA33	965151	7234	295 - 525	16986					L0439: 2, H0272: 1 and L0766: 1

HTOAT88	530183	7235	268 - 411	16987		H0264: 1	
HTOAT81	530185	7236	1 - 231	16988		H0264: 1	
HTOAT68	530187	7237	11 - 187	16989	Arg-1 to Gln-16.	H0264: 1	
HTOAT66	530188	7238	62 - 208	16990		H0264: 1	
HTOAT63	523754	7239	122 - 292	16991	Ser-1 to Trp-6.	H0264: 1	
HTOAT57	870017	7240	19 - 126	16992	Glu-20 to Arg-27.	H0264: 1	
HTOAT50	723595	7241	3 - 176	16993		H0264: 1	
HTOAT43	529840	7242	52 - 135	16994		H0264: 1	
HTOAT35	521914	7243	2 - 100	16995	Asn-1 to Thr-15.	H0264: 1	
HTOAT28	530191	7244	180 - 326	16996	Lys-7 to Gly-15.	H0264: 1	
HTOAT27	682115	7245	101 - 295	16997	Phe-5 to Ala-10, Glu-12 to Asn-17, Val-21 to Asp-35, Ile-58 to Asp-64.	H0264: 1	
HTOAT06	960581	7246	2 - 241	16998		H0264: 1	
HTOAO63	745545	7247	440 - 634	16999	Arg-1 to Ile-9.	H0264: 1 and L0748: 1.	
HTOAO01	921744	7248	1 - 165	17000		H0264: 1 and L0754: 1.	
HTOAM08	960122	7249	23 - 181	17001	Ser-3 to Thr-11.	H0264: 1 and L0758: 1.	
HTOAL84	783261	7250	2 - 118	17002	Ser-20 to Thr-27.	H0264: 1 and L0748: 1.	
HTOAK39	709579	7251	109 - 435	17003	Pro-83 to Ser-89.	H0264: 1 and L0581: 1.	
HTOAI51	529553	7252	44 - 193	17004		H0264: 1	
HTOAI25	529556	7253	1 - 105	17005		H0264: 1	
HTOAI15	529557	7254	61 - 261	17006		H0264: 1	
HTOAD05	932732	7255	261 - 94	17007		H0264: 1 and L0608: 1.	
HTOAA73	764707	7256	89 - 217	17008		H0264: 1 and L0599: 1.	
HTJNX95	795376	7257	1 - 465	17009	Leu-29 to Lys-36.	H0488: 1 and L0439: 1.	
HTJNT65	771995	7258	195 - 311	17010	Ala-1 to Thr-7.	L0731: 2 and H0488: 1.	
HTJNF11	966217	7259	232 - 582	17011	Ser-5 to Asp-11, Arg-18 to Asn-27, Pro-33 to Glu-39, Ser-44 to Trp-50.	H0488: 1 and L0766: 1.	
HTJMZ89	973076	7260	2 - 181	17012		H0488: 1	
HTJMU86	870312	7261	268 - 408	17013	Ser-1 to Ala-7.	H0488: 1 and L0766: 1.	
HTJMQ90	974496	7262	98 - 223	17014		H0488: 1	
HTJML71	759890	7263	1 - 261	17015	Phe-11 to Thr-21.	H0488: 1 and L0766: 1.	

HTJMF56	733444	7264	257 - 481	17016	Leu-67 to Ser-75.	H0488: 1 and L0740: 1.		
HTJAE78	773609	7265	177 - 404	17017	Ala-22 to Tyr-28.	H0487: 1		
HTJAD50	724438	7266	149 - 298	17018	Thr-13 to Lys-18.	H0487: 1 and L0748: 1.		
HTHDS68	753137	7267	3 - 230	17019		H0063: 1 and L0748: 1.		
HTHDR27	578830	7268	150 - 344	17020	Pro-27 to Ser-33, Ser-39 to Pro-44.	H0063: 1, L0748: 1 and L0749: 1.		
HTHDQ05	932174	7269	36 - 302	17021		H0063: 1		
HTHDM10	964906	7270	88 - 228	17022	His-16 to Phe-28, Arg-37 to Lys-43.	H0063: 1 and L0769: 1.		
HTHDL30	578894	7271	3 - 314	17023		H0063: 1		
HTHDJ93	792443	7272	170 - 457	17024	Asp-1 to His-6.	L0759: 2 and H0063: 1.		
HTHDF13	490673	7273	381 - 175	17025	Ala-49 to Asn-54.	H0063: 1		
HTHDE83	516372	7274	279 - 413	17026	Ser-5 to Asp-11.	H0063: 1		
	826819	9625	456 - 304	19377				
HTHDC07	953604	7275	327 - 533	17027	Gln-13 to Glu-21.	H0063: 1 and L0764: 1.		
HTHCV69	973309	7276	137 - 343	17028	Pro-28 to Cys-39.	H0063: 1		
HTHCU42	578861	7277	3 - 224	17029	Gln-7 to Arg-15, Ser-22 to Cys-29.	H0063: 1		
HTHCO72	578758	7278	177 - 323	17030		H0063: 1		
HTHCO45	722029	7279	1 - 159	17031	Thr-14 to Gly-22, Ser-40 to Glu-45.	H0063: 1		
HTHCK89	694051	7280	276 - 1	17032	Arg-14 to Thr-27, Leu-36 to Gly-42, Arg-51 to Cys-73, Glu-82 to Arg-92.	H0063: 1, L0657: 1 and L0592: 1.		
	870359	9626	1 - 489	19378	Gln-31 to Trp-36, Arg-61 to Lys-80, Pro-93 to Thr-100.			
	870365	9627	219 - 539	19379	Thr-19 to Gly-24.			
HTHCG74	578839	7281	1 - 87	17033		H0063: 1		
HTHBY73	946168	7282	1 - 360	17034	Asp-38 to Gly-44, Cys-92 to Gly-98, Ala-101 to Trp-106.	AR061: 12, AR089: 9 H0063: 1		
HTHBW81	519640	7283	134 - 283	17035	His-40 to Asn-47.	H0063: 1		

	625209	9628	485 - 147	19380	Glu-10 to Gln-15.			
HTHBW64	746955	7284	318 - 563	17036	Ser-12 to Lys-20, Ala-31 to His-36.	H0063: 1 and L0754: 1.		
HTHBU25	961627	7285	294 - 554	17037	Phe-20 to Ser-26, Pro-47 to Thr-55.	L0439: 3 and H0063: 1.		
HTHBT36	458387	7286	146 - 310	17038	Asn-15 to Gln-27, Ser-41 to Gly-47.	H0063: 1 and L0748: 1.		
HTHBM85	790305	7287	1 - 483	17039	Gly-1 to Arg-7.	H0063: 1 and L0439: 1.	15q24-q25	118485, 231680, 272800, 272800, 272800, 276700, 602685
HTHBM60	739707	7288	58 - 201	17040	Tyr-21 to Ser-33.	H0063: 1 and L0777: 1.		
HTHBK64	573926	7289	181 - 273	17041	Arg-15 to Leu-20, Gly-24 to Arg-31.	H0063: 1		
HTHBK47	526705	7290	46 - 240	17042	Gly-1 to Arg-9, Gln-15 to Gly-26,	H0063: 1		
HTHBK04	925600	7291	2 - 148	17043	Gln-29 to Phe-35.	H0063: 1		
HTHBH32	699557	7292	119 - 589	17044	Thr-7 to Arg-19, Lys-60 to Leu-68, Val-107 to Glu-119.	L0803: 2, L0750: 2, H0063: 1, L0763: 1, L0772: 1 and L0789: 1.		
HTHBG23	410319	7293	3 - 182	17045	Ile-1 to Cys-8, Ser-11 to Leu-22, His-25 to Glu-33.	H0063: 1		
HTHBC07	954440	7294	323 - 213	17046	Ser-9 to Ser-15.	H0063: 1		
HTHBC04	933029	7295	123 - 16	17047		H0063: 1 and L0764: 1.		
HTHAA24	575493	7296	3 - 239	17048	Ser-49 to Asp-54, Lys-56 to Asp-71.	H0062: 1		
HTGGO27	682376	7297	3 - 185	17049	Val-2 to Arg-11.	S0218: 1 and L0754: 1.		
HTGGN71	760059	7298	249 - 428	17050	Phe-1 to Asp-7.	S0218: 1 and L0748: 1.		
HTGGN51	870386	7299	47 - 238	17051		S0218: 1 and L0367: 1.		
HTGFY55	731360	7300	1 - 141	17052	Ala-1 to Ala-7, His-20 to Gly-38.	S0218: 1		
HTGFY05	928205	7301	35 - 145	17053	Leu-7 to His-12.	S0218: 1		
HTGFK70	756534	7302	3 - 131	17054	Gly-7 to Ser-12.	S0218: 1 and L0777: 1.		
HTGEY89	786057	7303	2 - 202	17055	Pro-59 to Trp-67.	S0218: 1		



HTGEY40	711177	7304	76 - 246	17056		S0218: 1		
HTGEX10	963862	7305	301 - 1017	17057	Arg-3 to Ser-9, Arg-11 to Trp-30, Thr-38 to Tyr-49, Thr-101 to Arg-107, Gly-139 to Tyr-146, Tyr-215 to Lys-223.	AR089: 43, AR061: 9 S0218: 1 and L0623: 1.		
HTGEX03	923445	7306	135 - 317	17058	Glu-1 to Arg-10, Ser-26 to Gly-39.	S0218: 1 and L0605: 1.		
HTGEU48	721660	7307	258 - 425	17059	Asp-48 to Phe-55.	S0218: 1 and L0599: 1.		
HTGEG89	786665	7308	28 - 228	17060		S0218: 1 and L0748: 1.		
HTGEG17	662369	7309	254 - 508	17061	Ser-68 to Gly-85.	L0766: 3, S0218: 1, L0789: 1 and L0748: 1.		
HTGED13	656504	7310	119 - 244	17062	Ser-32 to Lys-42.	S0218: 1 and L0748: 1.		
HTGEA37	908606	7311	3 - 122	17063	Pro-21 to Gly-31.	S0218: 1 and L0758: 1.	17q11.2	154275, 162200, 162200, 182138, 239100, 600881, 601954, 602403
HTGDX37	708877	7312	86 - 466	17064		L0748: 2, S0134: 1 and L0749: 1.		
HTGDX10	963854	7313	86 - 316	17065	Ser-8 to Arg-14.	S0134: 1 and L0517: 1.		
HTGDV61	741381	7314	297 - 515	17066		S0134: 1, L0766: 1 and L0749: 1.		
HTGDV52	796065	7315	104 - 364	17067	Asn-13 to Leu-18, Pro-68 to Ser-73.	L0747: 2, S0134: 1, L0439: 1, L0749: 1 and L0756: 1.		
HTGCQ86	784676	7316	3 - 392	17068	Thr-46 to Ser-55.	L0748: 2 and S0134: 1.		
HTGCH60	895628	7317	382 - 134	17069		S0134: 1		
HTGCD55	732247	7318	523 - 678	17070		L0748: 2 and S0134: 1.		
HTGBS94	578786	7319	238 - 399	17071		S0134: 1		
HTGBS70	870405	7320	1 - 120	17072	Glu-14 to Ala-19.	S0134: 1		
HTGBS59	739388	7321	155 - 286	17073		S0134: 1 and L0756: 1.		
HTGBS51	578782	7322	66 - 167	17074		S0134: 1		
HTGBS34	576472	7323	3 - 200	17075		S0134: 1 and L0756: 1.		
HTGBS08	959699	7324	565 - 810	17076	Leu-10 to His-15, Gly-31 to Glu-36, Glu-53 to Gly-65.	L0748: 2 and S0134: 1.		

HTGBR52	727276	7325	230 - 391	17077	Phe-20 to Ser-25.	L0754: 2 and S0134: 1.	16q22	103850, 114835, 121360, 217800, 218030
HTGBN58	738229	7326	114 - 233	17078		S0134: 1 and L0439: 1.		
HTGBL15	660483	7327	225 - 518	17079		S0134: 1 and L0748: 1.		
HTGBH09	625756	7328	7 - 126	17080	Glu-29 to Arg-40.	L0598: 2 and S0134: 1.		
HTGBE67	751525	7329	55 - 228	17081		S0134: 1		
HTGBE59	578807	7330	27 - 185	17082	Lys-1 to Lys-7.	S0134: 1		
HTGBE05	932168	7331	127 - 375	17083	Pro-54 to Pro-59.	S0134: 1		
HTGAZ86	785594	7332	96 - 239	17084		S0134: 1 and L0748: 1.		
HTGAZ75	766583	7333	342 - 479	17085		S0134: 1 and L0748: 1.		
HTGAY27	683556	7334	31 - 252	17086		L0367: 2, S0134: 1, L0370: 1, L0652: 1, L0748: 1 and L0605: 1.		
HTGAX83	781275	7335	1 - 210	17087	Asn-18 to Cys-24, Arg-57 to Pro-70.	S0134: 1 and L0756: 1.		
HTGAW78	773666	7336	199 - 417	17088	Leu-43 to Thr-48.	S0134: 1 and L0766: 1.		
HTGAT92	496307	7337	503 - 297	17089		S0134: 1 and L0766: 1.		
HTGAT55	732248	7338	162 - 446	17090	Pro-23 to Pro-32, Arg-46 to Trp-51.	L0749: 2 and S0134: 1.		
HTGAT16	919524	7339	141 - 356	17091		S0134: 1 and L0748: 1.		
HTGAT01	870424	7340	67 - 372	17092		S0134: 1 and L0766: 1.		
HTGAS15	870423	7341	14 - 223	17093	Lys-11 to Cys-18.	S0134: 1, L0756: 1 and L0759: 1.		
HTGAR44	716740	7342	22 - 309	17094	Trp-49 to Ala-54, His-62 to Asp-71, Gln-88 to Ser-96.	S0134: 1 and L0581: 1.		
HTGAK39	705634	7343	3 - 173	17095	Pro-31 to Gln-36.	S0134: 1 and L0766: 1.		
HTGAJ86	785672	7344	3 - 113	17096	Leu-15 to Arg-24.	S0134: 1 and L0749: 1.		
HTGAJ73	764598	7345	194 - 430	17097	Arg-26 to Glu-31, Gly-51 to Gln-59.	S0134: 1 and L0748: 1.		
HTGAI96	796541	7346	349 - 618	17098	Leu-6 to Gly-11.	S0134: 1, L0748: 1 and L0756: 1.		
HTGAI15	870441	7347	214 - 462	17099		S0134: 1 and L0749: 1.		
HTGAI13	955227	7348	178 - 387	17100	Asn-29 to Lys-37.	S0134: 1 and L0748: 1.		

HTGAD62	754052	7349	1 - 126	17101			S0134: 1 and L0731: 1.		
HTGAD16	567432	7350	204 - 554	17102	Gln-29 to Phe-35, Pro-73 to Pro-79, Pro-86 to Pro-99.		AR051: 22, AR050: 19, AR054: 17 S0134: 1		
HTGAD05	932378	7351	223 - 372	17103	Ala-13 to Leu-23, Ala-30 to Asp-40.		L0608: 2 and S0134: 1.		
HTGAC17	664513	7352	2 - 220	17104	Pro-23 to His-28, Ser-65 to Arg-70.		S0134: 1, L0790: 1 and L0740: 1.		
HTGAA80	574099	7353	119 - 277	17105	Pro-10 to Gln-24.		S0134: 1		
HTGAA44	574114	7354	42 - 266	17106	Ser-2 to Glu-10, Lys-18 to Gly-28.		S0134: 1		
HTDAC74	765656	7355	6 - 311	17107	His-1 to Trp-6, Arg-36 to Gly-67, Pro-73 to Gln-82.		L0361: 2, H0477: 1 and L0601: 1.		
HTDAB18	870746	7356	339 - 659	17108	Gly-10 to Ser-17.		H0477: 1 and L0803: 1.		
HTBAB07	954434	7357	3 - 224	17109	Gln-1 to Met-6, Pro-9 to Asp-14, Glu-36 to Trp-45, Arg-47 to Glu-58.		H0075: 1 and L0589: 1.		
HTBAA86	785846	7358	160 - 420	17110	His-1 to Ala-8.		H0075: 1		
HTAJP12	969518	7359	438 - 79	17111	Pro-5 to Arg-10, Gly-71 to Arg-76.		H0635: 1, L0772: 1 and L0662: 1.		
HTAJD72	880561	7360	237 - 88	17112			H0635: 1 and L0748: 1.		
HTAIY90	973870	7361	202 - 411	17113	Arg-23 to Trp-48.		H0635: 1		
HTAIQ05	930947	7362	147 - 359	17114	Ser-35 to Ile-41.		H0635: 1 and L0070: 1.		
HTAIG58	838701	7363	288 - 452	17115			L0455: 2 and H0635: 1.		
HTAIF22	910040	7364	179 - 457	17116			AR061: 4, AR089: 3 H0635: 1		
HTAIF11	965738	7365	3 - 461	17117	Glu-1 to Arg-7, His-87 to Gln-95.		H0635: 1		
HTAHZ02	918304	7366	65 - 277	17118			H0635: 1		
HTAGB16	870855	7367	249 - 569	17119	His-16 to Trp-25, Asp-55 to Gly-63.		H0635: 1 and L0748: 1.		
HTAFC92	790991	7368	113 - 418	17120			AR050: 26, AR051: 23, AR054: 22 H0069: 1		

HTAEV23	959129	7369	823 - 329	17121	Leu-7 to Lys-16, Thr-31 to Arg-41, Lys-54 to Asn-61, Ser-89 to His-104, Lys-126 to Lys-131.	AR061: 6, AR089: 4 H0069: 1		
HTAEP05	932459	7370	52 - 228	17122	Arg-41 to Glu-46, Glu-49 to Arg-59.	H0069: 1, L0370: 1, L0776: 1 and L0758: 1.		
HTAEK41	870858	7371	1 - 306	17123	Gly-1 to Arg-7.	H0069: 1	2q37.2	
HTAEF68	753597	7372	1 - 168	17124	Thr-27 to Ser-40.	H0069: 1 and L0439: 1.		
HTADW88	425065	7373	114 - 221	17125		H0069: 1		
HTADW52	537376	7374	63 - 170	17126	Trp-1 to Gly-7.	H0069: 1		
HTADO10	968307	7375	3 - 161	17127		H0069: 1 and L0438: 1.		
HTADB68	753598	7376	3 - 134	17128	Pro-6 to Lys-17.	H0069: 1 and L0748: 1.		
HTACX05	932467	7377	419 - 661	17129	Ser-16 to Gly-22.	H0069: 1 and L0750: 1.		
HTACW82	778852	7378	3 - 134	17130	Ser-1 to Gly-15.	H0069: 1 and L0748: 1.		
HTABK47	720684	7379	161 - 526	17131		L0749: 2, H0069: 1 and L0748: 1.		
HTABE12	971524	7380	98 - 187	17132		H0069: 1 and L0748: 1.		
HTAAO12	972231	7381	64 - 291	17133		H0069: 1 and L0643: 1.		
HTAAB06	960796	7382	110 - 15	17134	Ser-1 to Gly-9, Pro-12 to Gly-25, Pro-27 to Gly-32.	L0518: 4 and H0069: 1.		
HTAAA45	518652	7383	299 - 123	17135	Asn-6 to Ser-11, Pro-28 to Trp-37, Thr-39 to Lys-50.	H0069: 1		
HTAAA31	693527	7384	130 - 2	17136	Phe-19 to Gln-24.	H0069: 1 and L0740: 1.		
HT4AY23	973773	7385	2 - 169	17137	Pro-2 to Cys-18, Phe-22 to Gly-29.	H0141: 1		
HT3TA67	752169	7386	1 - 483	17138	Gln-1 to Ser-9, Ser-43 to Glu-53, Leu-84 to Phe-92, Leu-96 to Ile-101.	L0439: 3 and H0223: 1.		
HT3SH28	508061	7387	1 - 210	17139	Gln-16 to Ser-21, Thr-48 to Lys-56.	H0222: 1		
HT3SA81	589206	7388	3 - 272	17140	Pro-27 to Ser-35, Pro-51 to Trp-58.	H0222: 1	1q21	104770, 107670, 110700, 135940,

HT3SA80	781631	7389	134 - 349	17141	Gly-27 to Ala-33.	H0222: 1	145001, 146790, 152445, 152445, 159001, 174000, 179755, 182860, 182860, 182860, 191315, 230800, 230800, 266200, 600897, 601105, 601412, 601652, 602491
HT3SA71	766391	7390	54 - 326	17142	Gln-20 to Phe-26, Val-73 to Asn-91.	H0222: 1	
HT3SA56	522757	7391	233 - 418	17143	Asn-32 to Lys-43.	H0222: 1	
HT3BK75	766488	7392	1 - 273	17144		H0159: 1 and L0743: 1.	
HT3BF33	527782	7393	80 - 181	17145	Val-27 to Ser-33.	H0159: 1	
HT2TA82	522751	7394	77 - 160	17146		H0221: 1	
HT2TA37	522754	7395	20 - 193	17147	Glu-38 to Ser-44.	H0221: 1	
HT2SA86	524290	7396	101 - 265	17148	Ser-9 to Ser-14, Glu-30 to Ile-36, Tyr-38 to His-43.	H0220: 1	
HT2SA63	518341	7397	37 - 171	17149		H0220: 1	
HT2SA50	522771	7398	180 - 326	17150	Pro-1 to Asn-7, Gly-23 to Ile-28.	L0748: 2 and H0220: 1.	
HT2SA48	508077	7399	52 - 273	17151	Gly-25 to His-31.	H0220: 1	
HT2SA47	578704	7400	110 - 247	17152		H0220: 1	
HT2SA38	840184	7401	21 - 155	17153		H0220: 1	
HT2SA37	695038	7402	2 - 97	17154		H0220: 1	
HT2SA26	522770	7403	403 - 272	17155	Lys-1 to Leu-11.	H0220: 1 and L0439: 1.	
HT2SA13	870917	7404	124 - 336	17156	Glu-1 to Val-11, Leu-34 to Tyr-44.	H0220: 1	
HT1TB40	575355	7405	114 - 251	17157		H0219: 1	
HSYDH60	949156	7406	115 - 282	17158	Pro-20 to Ser-25, Phe-49 to Trp-54.	L0731: 2, H0551: 1, L0747: 1 and L0750: 1.	
HSYCV01	926955	7407	233 - 376	17159		H0551: 1 and L0745: 1.	
HSYCV01	940661	7408	1 - 522	17160	Thr-11 to Arg-16.	H0551: 1 and L0740: 1.	

HSYCS04	926943	7409	247 - 134	17161			H0551: 1 and L0542: 1.	
HSYBZ51	725586	7410	2 - 388	17162			H0551: 1 and L0752: 1.	
HSYBX42	713630	7411	1 - 210	17163		Arg-10 to Arg-20, Ala-35 to Gly-54.	H0551: 1 and L0601: 1.	
HSYBW55	731627	7412	245 - 532	17164		Ile-1 to Asn-10.	H0551: 1 and L0740: 1.	
HSYBK77	772067	7413	59 - 541	17165			H0551: 1, L0740: 1 and L0777: 1.	
HSYBH70	756492	7414	89 - 475	17166		Val-1 to Asp-6, Val-10 to Asn-20, Gly-33 to Asn-46, Glu-57 to Ser-62, Ala-69 to Gln-74, Asp-90 to Ser-100.	L0439: 2, H0551: 1 and L0745: 1.	
HSYBH16	661807	7415	2 - 571	17167		Pro-10 to Arg-16.	H0551: 1, L0747: 1 and L0777: 1.	
HSYAV79	928403	7416	85 - 408	17168			H0551: 1 and L0766: 1.	
HSYAU07	953032	7417	1 - 216	17169			H0551: 1, L0779: 1, L0592: 1 and L0608: 1.	
HSYAF81	493771	7418	134 - 3	17170		Leu-22 to Ala-28, Lys-33 to Arg-44.	H0551: 1	
HSMBD15	659891	7419	2 - 421	17171		Ser-36 to Thr-42.	S0298: 1 and L0740: 1.	19q
HSMBC78	917244	7420	374 - 610	17172			S0298: 1 and L0759: 1.	
HSMBA83	780932	7421	9 - 239	17173		Pro-9 to Trp-16, Pro-55 to Leu-61, Asn-70 to Gly-77.	S0298: 1 and L0756: 1.	
HSMBA39	715630	7422	166 - 363	17174			L0770: 2, L0749: 2, S0298: 1, L0653: 1, L0776: 1, L0659: 1 and L0789: 1.	
HSZQ69	754362	7423	170 - 298	17175			S0114: 1 and L0754: 1.	
HSZP83	780400	7424	283 - 510	17176		Arg-15 to Ile-23, Thr-33 to Phe-39.	S0114: 1 and L0745: 1.	
HSZP65	747422	7425	15 - 284	17177		Thr-8 to Trp-13.	S0114: 1 and L0754: 1.	
HSZIG64	746074	7426	326 - 517	17178		Leu-9 to His-14.	S0114: 1 and L0756: 1.	
HSZIS53	727757	7427	239 - 337	17179			L0748: 2 and S0114: 1.	
HSZGS2	726195	7428	274 - 396	17180		Ile-16 to Gly-21.	L0754: 2 and S0114: 1.	
HSZG23	950023	7429	120 - 467	17181			AR089: 40, AR061: 7	

	963220	9629	466 - 152	19381	Pro-13 to Asp-20, Thr-27 to Arg-32, Lys-53 to Trp-59, Pro-65 to Gly-70, Gly-77 to Gly-86.	L0523: 2, S0114: 1, L0748: 1 and L0749: 1.	
HSZA42	866817	7430	136 - 324	17182	Ser-16 to Lys-21.	S0114: 1	
HSZA39	705365	7431	131 - 328	17183	Ile-15 to His-21.	S0114: 1 and L0594: 1.	
HSZA06	935451	7432	173 - 364	17184	Gln-9 to Leu-16.	S0114: 1	
HSAYT37	708803	7433	170 - 316	17185	His-23 to Arg-29.	S0114: 1 and L0748: 1.	
HSAYT29	866821	7434	343 - 585	17186		S0114: 1 and L0530: 1.	
HSAYR63	744333	7435	1 - 318	17187		S0114: 1 and L0748: 1.	
HSAYO42	713793	7436	169 - 405	17188	Arg-8 to Phe-16, Gln-25 to Gly-31, Gln-37 to Asn-45.	S0114: 1 and L0754: 1.	
HSAYK93	791546	7437	215 - 433	17189	Arg-16 to His-25, Arg-47 to Phe-57, Pro-60 to Ser-68.	L0749: 2 and S0114: 1.	
HSAXS16	661933	7438	1 - 165	17190	Lys-40 to Ser-45, Cys-49 to Arg-55.	S0114: 1 and L0748: 1.	
HSAXM08	866838	7439	343 - 648	17191	Val-34 to Asp-39, Ser-73 to Ser-87, Lys-93 to Arg-100.	S0114: 1	
	958886	9630	212 - 499	19382			
HSAXJ95	721825	7440	135 - 446	17192		S0114: 1 and L0439: 1.	
HSAXJ93	792516	7441	301 - 453	17193	Glu-6 to Lys-12.	S0114: 1 and L0757: 1.	
HSAXI05	932387	7442	151 - 357	17194	Gln-6 to Asn-20, Val-22 to Thr-36.	S0114: 1 and L0756: 1.	
HSAXH85	784475	7443	32 - 181	17195		S0114: 1 and L0748: 1.	
HSAXG45	457077	7444	67 - 243	17196	Gln-13 to Ser-21.	S0114: 1 and L0756: 1.	
HSAXE42	714040	7445	3 - 227	17197		L0742: 2 and S0114: 1.	
HSAXE33	702673	7446	131 - 334	17198		S0114: 1 and L0753: 1.	
HSAXC55	732368	7447	363 - 202	17199	Lys-24 to Glu-30, Ser-46 to Gln-54.	S0114: 1 and L0600: 1.	
HSAXB89	787069	7448	102 - 224	17200	Leu-2 to Asp-12.	S0114: 1 and L0745: 1.	

HSAWY92	792888	7449	114 - 389	17201	Leu-2 to Thr-7.	S0114: 1, L0748: 1 and L0749: 1.	
HSAWY81	574184	7450	21 - 239	17202	Tyr-21 to Arg-26, Val-48 to Ala-54.	S0114: 1	
HSAWY79	574182	7451	1 - 204	17203	His-56 to Ser-62.	S0114: 1	
HSAWY33	866861	7452	85 - 222	17204		S0114: 1 and L0592: 1.	
HSAWY07	933851	7453	241 - 381	17205		S0114: 1	
HSAWW74	765818	7454	40 - 120	17206		S0114: 1 and L0439: 1.	9p22.2
HSAWU12	968804	7455	72 - 368	17207	Ile-1 to Leu-8, Ser-31 to Thr-40, Glu-69 to Pro-80.	S0114: 1 and L0748: 1.	
HSAWS74	765819	7456	166 - 345	17208	Asn-44 to Arg-57.	S0114: 1 and L0595: 1.	
HSAWS40	711441	7457	37 - 159	17209		S0114: 1 and L0748: 1.	
HSAWR08	959943	7458	3 - 359	17210	Asn-13 to Lys-20, Val-92 to Arg-98.	L0758: 3 and S0114: 1.	
HSAWO08	959938	7459	176 - 319	17211	Ser-20 to Leu-28.	S0114: 1 and L0717: 1.	
HSAWL77	772444	7460	175 - 285	17212		L0748: 4 and S0114: 1.	
HSAWL68	753569	7461	143 - 292	17213	Gly-5 to Glu-10.	S0114: 1 and L0750: 1.	
HSAWK67	526767	7462	212 - 361	17214		S0114: 1	
HSAWK32	418690	7463	14 - 220	17215		S0114: 1	
HSAWK21	954897	7464	14 - 283	17216	Glu-51 to Asn-61.	S0114: 1	
HSAWK20	866872	7465	134 - 307	17217		S0114: 1	
HSAWI13	971727	7466	273 - 539	17218	Pro-15 to Phe-22, Gly-46 to His-55.	S0114: 1, L0779: 1 and L0591: 1.	
HSAWI11	964949	7467	167 - 322	17219		S0114: 1 and L0754: 1.	
HSAWG44	716820	7468	146 - 346	17220	Leu-3 to Lys-9.	L0753: 2, S0114: 1 and L0521: 1.	
HSAWF86	675220	7469	38 - 253	17221		S0114: 1 and L0748: 1.	
HSAWF52	728598	7470	2 - 328	17222		S0114: 1 and L0745: 1.	
HSAWD34	706928	7471	194 - 349	17223		S0114: 1 and L0740: 1.	
HSAWD24	677435	7472	3 - 236	17224		S0114: 1 and L0748: 1.	
HSAWD15	660572	7473	316 - 447	17225		S0114: 1, L0438: 1 and L0439: 1.	
HSAWC55	866890	7474	102 - 347	17226	Ser-1 to Gln-12.	S0114: 1	
HSAWB70	757409	7475	12 - 170	17227		S0114: 1 and L0748: 1.	



HSAVZ82	881166	7476	115 - 291	17228		S0114: 1 and L0748: 1.		
HSAVZ63	574195	7477	113 - 253	17229	Thr-5 to Thr-10.	S0114: 1		
HSAVY10	968230	7478	36 - 212	17230		S0114: 1 and L0601: 1.		
HSAVY02	920721	7479	81 - 422	17231	Thr-11 to Ser-18, Leu-56 to Glu-70.	S0114: 1, L0527: 1 and L0682: 1.		
HSAVX22	674919	7480	116 - 247	17232		S0114: 1 and L0748: 1.		
HSAVW13	862754	7481	115 - 225	17233		S0114: 1 and L0748: 1.		
HSAVV36	866886	7482	2 - 208	17234		S0114: 1, L0748: 1 and L0361: 1.		
HSAVS48	721856	7483	21 - 131	17235		S0114: 1 and L0746: 1.		
HSAVQ73	929276	7484	501 - 695	17236	Leu-47 to Asp-61.	S0114: 1 and L0604: 1.	11q23.3	176000, 261640, 602574, 602574
HSAVP56	733616	7485	3 - 206	17237		S0114: 1 and L0748: 1.		
HSAVO05	932379	7486	35 - 253	17238	Ser-26 to Cys-33, Gly-53 to Pro-62.	S0114: 1 and L0773: 1.		
HSAVN72	574129	7487	3 - 296	17239		S0114: 1 and L0748: 1.		
HSAVN48	526505	7488	1 - 144	17240		S0114: 1		
HSAVN24	574106	7489	2 - 112	17241	Glu-1 to Trp-16, His-18 to Ser-26.	S0114: 1		
HSAVK84	783183	7490	127 - 246	17242		S0114: 1 and L0748: 1.		
HSAVI84	783182	7491	84 - 233	17243		L0748: 3, S0114: 1, L0740: 1 and L0749: 1.		
HSAVI53	728361	7492	1 - 219	17244	Lys-1 to Leu-25.	L0605: 2 and S0114: 1.		
HSAVG96	796544	7493	86 - 238	17245		S0114: 1 and L0598: 1.		
HSAVF17	664515	7494	221 - 313	17246	Asn-19 to Phe-24.	S0114: 1, L0766: 1, L0665: 1 and L0748: 1.		
HSAVE61	742076	7495	238 - 447	17247	Gly-43 to Ser-57.	S0114: 1 and L0599: 1.		
HSAVA79	781800	7496	1 - 111	17248	Val-2 to Glu-7.	S0114: 1 and L0731: 1.		
HSAVA22	674977	7497	79 - 189	17249	Phe-17 to Gln-23.	S0114: 1, L0521: 1 and L0748: 1.		
HSAUZ11	967609	7498	42 - 338	17250	Arg-13 to Gly-19.	S0114: 1 and L0766: 1.		
HSAUW24	679279	7499	57 - 341	17251	Tyr-46 to Phe-51.	S0114: 1 and L0748: 1.		
HSAUU25	679278	7500	315 - 659	17252	Asn-32 to Pro-40, Ser-49 to Cys-54.	L0748: 3, L0749: 3, L0596: 2 and S0114: 1.		
HSAUQ81	866192	7501	49 - 309	17253		AR051: 41, AR050: 27,		

	899273	9631	201 - 389	19383		AR054: 22 S0114: 1 and L0766: 1.		
HSAUQ54	730928	7502	161 - 373	17254		S0114: 1 and L0748: 1.		
HSAUQ44	716847	7503	61 - 201	17255	Pro-16 to Phe-22.	S0114: 1 and L0754: 1.		
HSAUL84	908440	7504	3 - 302	17256	Ala-23 to Asp-28, Gln-53 to Tyr-60.	AR061: 1, AR089: 1 S0114: 1 and L0686: 1.		
HSAUK72	766240	7505	110 - 280	17257	Pro-11 to Ser-17.	S0114: 1 and L0591: 1.		
HSAUK48	883205	7506	2 - 238	17258	Pro-5 to Gly-15, Ala-35 to Gln-40.	S0114: 1 and L0750: 1.		
HSAUI23	422961	7507	485 - 129	17259		L0789: 2, S0114: 1, L0748: 1 and L0599: 1.		
	843427	9632	405 - 608	19384	Leu-3 to Gly-11, Glu-14 to Ala-21.			
HSAUH06	954543	7508	2 - 211	17260		S0114: 1 and L0599: 1.		
HSAUH02	917314	7509	3 - 224	17261		S0114: 1, L0749: 1 and L0589: 1.		
HSAUG74	765859	7510	358 - 483	17262		S0114: 1, L0740: 1 and L0747: 1.		
HSAUD02	920827	7511	37 - 237	17263		S0114: 1 and L0748: 1.		
HSAUB69	514840	7512	179 - 406	17264	Gly-15 to Lys-20.	S0114: 1		
	567319	9633	50 - 229	19385				
HSAUB39	705677	7513	157 - 357	17265	Lys-23 to Thr-35.	S0114: 1 and L0748: 1.		
HSATZ81	778268	7514	101 - 268	17266		L0745: 2 and S0114: 1.		
HSATY22	674986	7515	3 - 401	17267	Glu-31 to Tyr-43, Pro-94 to Arg-108.	L0779: 4, L0758: 2, S0114: 1 and L0749: 1.		
HSATW91	790394	7516	223 - 333	17268		S0114: 1 and L0748: 1.		
HSATW51	725879	7517	284 - 529	17269	Leu-12 to Lys-31.	S0114: 1 and L0740: 1.		
HSATV96	843424	7518	526 - 681	17270		S0114: 1 and L0748: 1.		
HSATS25	866949	7519	2 - 184	17271	Lys-36 to Ile-41, Val-56 to Lys-61.	S0114: 1, L0766: 1 and L0779: 1.		
HSATQ55	732406	7520	57 - 350	17272	Asn-3 to Ser-8, Asn-16 to His-24, Phe-42 to Gly-48, Arg-71 to Lys-81, Gly-88 to Gly-98.	S0114: 1 and L0748: 1.		

HSATM64	862436	7521	356 - 640	17273	Gly-1 to Gly-8, Ser-26 to Ala-39, Ser-52 to Arg-58, Ser-63 to Leu-71, Ala-90 to Ser-95.	L0747: 3, L0756: 2, S0114: 1 and L0750: 1.		
HSATM19	866954	7522	281 - 448	17274		S0114: 1 and L0748: 1.		
HSATM09	456326	7523	42 - 176	17275		S0114: 1 and L0599: 1.		
HSATL02	920825	7524	3 - 227	17276	Arg-1 to Asn-8, Glu-10 to Asp-16.	L0518: 3 and S0114: 1.		
HSATI58	866955	7525	124 - 429	17277	Pro-51 to Pro-58.	S0114: 1 and L0509: 1.		
HSATES3	728414	7526	224 - 448	17278		L0748: 3 and S0114: 1.		
HSATC79	602167	7527	269 - 424	17279	Ser-14 to Thr-23.	S0114: 1 and L0600: 1.		
HSATC72	761511	7528	219 - 332	17280	Asp-14 to Thr-20.	L0731: 2 and S0114: 1.		
HPSAD92	790524	7529	77 - 298	17281		H0074: 1 and L0748: 1.		
HPSAB26	429558	7530	142 - 282	17282	Asp-1 to Gly-7, Pro-41 to Gln-47.	H0074: 1		
HPSAB24	518747	7531	171 - 341	17283	Pro-5 to Ala-13, Pro-15 to Thr-24.	H0074: 1		
HPSAB15	503600	7532	126 - 401	17284		L0748: 2, L0749: 2 and H0074: 1.		
HPSAA94	793000	7533	356 - 75	17285		H0074: 1		
HPSAA93	867387	7534	2 - 178	17286		H0074: 1		
HPSAA91	503543	7535	275 - 6	17287	Ser-31 to Pro-37, Pro-52 to Trp-60, Leu-66 to Leu-71.	H0074: 1		
HPSAA75	503544	7536	317 - 138	17288		H0074: 1 and L0748: 1.		
HPSAA41	503569	7537	257 - 355	17289	Leu-1 to Asn-11.	H0074: 1		
HPSAA30	503567	7538	29 - 253	17290	Val-19 to Met-29.	L0766: 3 and H0074: 1.		
HPSAA03	960941	7539	529 - 362	17291		H0074: 1		
HNNTA24	911178	7540	189 - 596	17292	Leu-98 to Ala-105, Pro-120 to Gly-127.	AR050: 87, AR054: 77, AR051: 70 H0679: 1		
	972489	9634	182 - 589	19386	Leu-98 to Ala-105, Pro-120 to Gly-127.			
HNHPF67	859817	7541	191 - 475	17293		S0216: 1 and L0748: 1.		
HNHPD68	974350	7542	13 - 252	17294	Thr-1 to His-12.	S0216: 1		

HNH0X01	915303	7543	3 - 176	17295	Glu-12 to Ser-18, Arg-24 to Pro-35, Pro-43 to Arg-49.	S0216: 1		
HNH0V24	974344	7544	138 - 278	17296	Lys-21 to Pro-27, Arg-41 to Thr-47.	L0532: 1 and S0216: 1.		
HNH0Q36	859824	7545	108 - 473	17297	Ala-47 to Gly-52, Pro-87 to Ser-98.	L0493: 2 and S0216: 1.		
HNH0P92	790911	7546	2 - 256	17298	Gly-1 to Ser-7, Glu-9 to Asp-18.	S0216: 1 and L0589: 1.		
HNH0P88	974327	7547	3 - 215	17299	Gln-43 to His-51.	S0216: 1		
HNH0P32	974330	7548	293 - 445	17300		S0216: 1		
HNH0I63	838790	7549	103 - 336	17301	Ser-61 to Pro-72.	L0521: 1 and S0216: 1.		
HNH0I07	952285	7550	167 - 358	17302	Asn-1 to Asn-10, Glu-12 to Val-20, Trp-29 to Gly-39, Ser-53 to Thr-60.	S0216: 1 and L0592: 1.		
HNH0F94	948720	7551	2 - 508	17303	Pro-94 to Ser-102.	AR051: 25, AR050: 24, AR054: 20, AR089: 17, AR061: 9 S0216: 1		
HNHNT20	773683	7552	133 - 279	17304		S0216: 1 and L0599: 1.	6p24	134570
HNHNQ08	958377	7553	148 - 429	17305		S0216: 1 and L0748: 1.		
HNHNP81	928378	7554	143 - 514	17306	Ile-1 to Ser-16.	AR051: 23, AR054: 11, AR050: 9, AR061: 8, AR089: 5 S0216: 1		
HNHNP66	918684	7555	3 - 326	17307		S0216: 1		
HNHNO01	915358	7556	200 - 367	17308		S0216: 1 and L0749: 1.		
HNHNM39	950971	7557	249 - 88	17309	Val-2 to Thr-12.	S0216: 1 and L0750: 1.		
HNHNK02	918715	7558	225 - 512	17310	Leu-33 to Ser-40.	L0370: 1 and S0216: 1.		
HNHNJ24	859836	7559	146 - 403	17311		L0775: 1, S0216: 1, L0438: 1 and L0752: 1.		
HNHNJ09	800482	7560	223 - 483	17312	Ser-28 to Arg-33.	S0216: 1		
HNHNH51	974343	7561	1 - 255	17313		S0216: 1		
HNHND85	870121	7562	71 - 529	17314	Pro-21 to Ser-26, His-29 to Arg-35.	L0753: 2 and S0216: 1.		

HNHND81	974334	7563	2 - 229	17315	Pro-41 to Leu-50, Thr-87 to Arg-99.	S0216: 1	
HNHND07	952273	7564	186 - 320	17316	Thr-24 to Ser-29, Pro-31 to Thr-40, Leu-44 to Val-61.	S0216: 1 and L0748: 1.	
HNHNB92	790945	7565	34 - 342	17317	Pro-47 to Gly-55.	S0216: 1 and L0777: 1.	
HNHNB85	783887	7566	149 - 322	17318		S0216: 1 and L0745: 1.	
HNHNB02	918709	7567	124 - 234	17319		S0216: 1 and L0748: 1.	
HNHBMZ49	859842	7568	220 - 426	17320		S0216: 1 and L0589: 1.	
HNHMY52	975207	7569	2 - 190	17321	Asn-7 to Ile-25, Ala-29 to His-41.	S0216: 1	
HNHMS26	975206	7570	155 - 286	17322	Ile-33 to Ser-41.	S0216: 1	
HNHMQ86	784986	7571	2 - 151	17323	Pro-1 to Thr-7, Pro-26 to Tyr-31.	S0216: 1 and L0731: 1.	
HNHMQ28	859847	7572	6 - 131	17324		S0216: 1 and L0748: 1.	
HNHMF02	918649	7573	2 - 169	17325	Phe-1 to Phe-7, Lys-23 to Lys-30.	S0216: 1 and L0758: 1.	
HNHLY58	859849	7574	571 - 323	17326		L0365: 1 and S0216: 1.	
HNHLW34	859850	7575	353 - 66	17327	Glu-9 to Lys-19.	S0216: 1 and L0438: 1.	
HNHLW10	963542	7576	16 - 213	17328	Lys-8 to Cys-14.	S0216: 1 and L0361: 1.	
HNHLR36	859851	7577	402 - 587	17329		L0520: 1 and S0216: 1.	
HNHLQ07	952279	7578	387 - 566	17330		L0749: 3 and S0216: 1.	
HNHLG36	855071	7579	335 - 556	17331		L0659: 1, L0663: 1, S0216: 1 and L0601: 1.	
HNHLD70	756668	7580	3 - 221	17332	Ser-10 to Thr-21, Pro-23 to Asn-34, Leu-42 to Thr-51.	S0216: 1 and L0592: 1.	
HNHLC01	915363	7581	277 - 519	17333		L0385: 1 and S0216: 1.	
HNHLB03	923091	7582	2 - 256	17334	Ala-17 to Cys-32, Gln-38 to Lys-47, Ser-58 to Ala-64, Arg-66 to Trp-72.	L0741: 4 and S0216: 1.	
HNHKT86	785104	7583	379 - 44	17335		L0439: 2 and S0216: 1.	
HNHKQ50	723868	7584	84 - 434	17336		L0748: 2, L0766: 1, S0216: 1 and L0779: 1.	

HNHHP03	923276	7585	350 - 679	17337	Pro-20 to His-29.	L0758: 3 and S0216: 1.	
HNHKG161	859925	7586	335 - 505	17338		L0766: 1, S0216: 1 and L0740: 1.	
HNHIS54	730706	7587	189 - 1	17339		S0053: 1 and L0439: 1.	
HNHIR83	781195	7588	36 - 284	17340		S0053: 1 and L0439: 1.	
HNHIC85	784345	7589	137 - 442	17341	Asp-1 to Pro-11, Gly-27 to Cys-34.	S0053: 1, L0748: 1 and L0749: 1.	
HNHHL58	736064	7590	136 - 501	17342	Ile-2 to Arg-8, Phe-21 to Gln-30.	S0053: 1 and L0596: 1.	
HNHHG53	830068	7591	172 - 336	17343		S0053: 1 and L0591: 1.	
HNHHF86	784698	7592	168 - 383	17344		S0053: 1	
HNHHF61	741836	7593	86 - 316	17345		S0053: 1	
HNHHF52	726576	7594	101 - 292	17346	Thr-35 to Pro-40.	S0053: 1	
HNHHF39	705407	7595	149 - 346	17347	Glu-16 to Pro-21, Pro-30 to Pro-36, Arg-47 to Ser-58, Leu-60 to Lys-65.	S0053: 1	
HNHHF38	709278	7596	41 - 184	17348	Ile-38 to Pro-47.	S0053: 1	
HNHHF37	708714	7597	2 - 229	17349		S0053: 1	
HNHHF28	694365	7598	3 - 227	17350	Glu-5 to Pro-14.	S0053: 1 and L0600: 1.	
HNHHF13	657245	7599	138 - 55	17351	Pro-1 to Lys-12, Lys-18 to Leu-24.	S0053: 1	
HNHHF03	924221	7600	101 - 193	17352	Ser-10 to Val-16.	S0053: 1	
HNHHG61	741839	7601	89 - 196	17353	Pro-1 to Gln-8.	L0758: 2, S0053: 1 and L0602: 1.	
HNHGX61	948731	7602	136 - 291	17354	Pro-26 to Lys-34, Pro-47 to Gln-52.	S0053: 1 and L0589: 1.	
HNHGV62	743400	7603	1 - 228	17355	Ser-61 to Pro-70.	S0053: 1	
HNHGU56	859953	7604	117 - 440	17356		L0369: 1 and S0053: 1.	
HNHGT92	496480	7605	12 - 164	17357		S0053: 1	
HNHGT84	781977	7606	110 - 307	17358		S0053: 1	
HNHGT80	775409	7607	45 - 260	17359	Glu-8 to Lys-14, Arg-20 to Gln-25.	S0053: 1	
HNHGT15	660304	7608	144 - 311	17360	Ser-13 to Gln-27.	L0589: 2 and S0053: 1.	
HNHGT09	625615	7609	1 - 243	17361	Thr-2 to Asp-10,	S0053: 1	

HNHGS24	677228	7610	350 - 748	17362	Asp-16 to Ile-21, Ile-25 to Lys-36.	L0749: 3, L0748: 2 and S0053: 1.		
HNHGO45	582523	7611	547 - 879	17363	Cys-51 to Ser-57, Arg-68 to His-77, Asn-93 to His-102.	L0748: 2 and S0053: 1.	11p15.5-p15.4	125852, 126452, 126452, 130650, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 150000, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 257200, 257200, 600856, 601680, 602631, 602631
HNHGN27	859972	7612	3 - 314	17364	Glu-5 to Ser-14, Pro-22 to Cys-27.	L0758: 2 and S0053: 1.		
HNHGI60	740396	7613	159 - 488	17365		L0745: 4 and S0053: 1.		
HNHGI03	923829	7614	1 - 309	17366	Glu-92 to Lys-103.	S0053: 1		
HNHGH83	781208	7615	2 - 241	17367	Ala-8 to Leu-13, Lys-26 to Val-32.	S0053: 1 and L0592: 1.		
HNHGH22	859983	7616	3 - 251	17368	His-1 to Thr-7, Glu-28 to Asn-37.	S0053: 1 and L0748: 1.		
HNHGG39	561093	7617	117 - 329	17369		AR051: 10, AR050: 10, AR054: 9 S0053: 1 and L0361: 1.		
HNHGF28	686735	7618	18 - 443	17370	Pro-5 to Gly-12.	S0053: 1 and L0740: 1.		
HNHGE91	790212	7619	3 - 242	17371	Glu-18 to Ser-29, Val-31 to Arg-41, Gly-47 to Phe-54.	S0053: 1		
HNHGE81	777955	7620	44 - 295	17372	Lys-29 to Trp-40.	S0053: 1		

HNHGE79	775214	7621	107 - 286	17373	Glu-29 to Asp-35.	S0053: 1	
HNHGE68	753052	7622	1 - 174	17374	Gly-1 to Ser-7, Thr-12 to Lys-19.	S0053: 1	
HNHGE44	683294	7623	1 - 339	17375	Thr-50 to Glu-59.	L0589: 3 and S0053: 1.	
HNHGE31	698046	7624	59 - 169	17376		S0053: 1	
HNHGE24	677234	7625	50 - 154	17377	Pro-16 to Tyr-24.	S0053: 1	
HNHGE12	970722	7626	1 - 396	17378	Gly-1 to Arg-17, Ser-24 to Cys-33, Thr-78 to Arg-88.	S0053: 1	
HNHGD08	959494	7627	1 - 249	17379	Ala-24 to Glu-30.	S0053: 1 and L0603: 1.	
HNHGC92	792740	7628	109 - 285	17380	Asn-22 to Lys-31.	S0053: 1	
HNHGC91	790199	7629	103 - 225	17381	Ser-1 to Gln-9, Pro-15 to Thr-27, His-29 to Tyr-39.	S0053: 1	
HNHGC45	720747	7630	3 - 359	17382	Cys-20 to Ile-27, Thr-45 to Gly-51, Gly-93 to Gly-101.	L0617: 1, L0157: 1 and S0053: 1.	
HNHGC32	699286	7631	1 - 192	17383	Lys-36 to Tyr-41.	S0053: 1	
HNHGC21	670949	7632	58 - 423	17384	Gln-80 to Leu-87.	S0053: 1	
HNHGC20	859991	7633	14 - 247	17385	Arg-5 to Glu-10.	S0053: 1	
HNHGC19	668692	7634	2 - 250	17386		S0053: 1	
HNHGC08	962224	7635	53 - 271	17387	Gln-11 to Asp-19.	S0053: 1	
HNHGC07	953414	7636	44 - 328	17388	Ser-14 to Leu-20, Arg-62 to Gly-68.	S0053: 1	
HNHGB12	970726	7637	377 - 676	17389		L0761: 1, S0053: 1 and L0758: 1.	
HNHGA53	973803	7638	111 - 260	17390		S0053: 1	
HNHFX68	752305	7639	3 - 188	17391	Asp-19 to Glu-28, Ser-38 to Arg-44, Gly-51 to Lys-62.	S0053: 1 and L0592: 1.	
HNHFX08	959475	7640	287 - 448	17392		L0365: 1 and S0053: 1.	
HNHFX10	961275	7641	55 - 222	17393	Gln-20 to Glu-26, Ser-32 to Glu-47.	S0053: 1	
HNHFX08	959484	7642	33 - 218	17394	Ala-9 to Asn-17.	S0053: 1 and L0592: 1.	
HNHFX07	953403	7643	111 - 314	17395	Tyr-17 to His-22.	S0053: 1 and L0779: 1.	



HNHFV49	975415	7644	520 - 768	17396		AR061: 12, AR089: 5 S0053: 1		
HNHFV30	566339	7645	2 - 151	17397	Pro-23 to Trp-32.	AR051: 103, AR050: 100, AR054: 83 S0053: 1		
HNHFU64	937179	7646	264 - 467	17398	Pro-37 to Ala-47.	AR051: 11, AR061: 3, AR089: 2, AR050: 2, AR054: 1 S0053: 1		
HNHFU56	733513	7647	155 - 352	17399	Gln-6 to Ser-15, Pro-17 to Ala-29.	S0053: 1 and L0748: 1.		
HNHFU12	970882	7648	220 - 387	17400		S0053: 1 and L0608: 1.		
HNHFR69	757646	7649	256 - 429	17401		S0053: 1 and L0589: 1.		
HNHFP94	888666	7650	3 - 287	17402	Lys-47 to Pro-54.	AR051: 88, AR050: 84, AR054: 67 S0053: 1		
HNHFP89	786967	7651	129 - 284	17403		S0053: 1 and L0745: 1.		
HNHFP03	924606	7652	1 - 204	17404	Pro-23 to Gly-29.	L0766: 1 and S0053: 1.		
HNHFM74	506283	7653	1 - 270	17405	Gly-12 to Trp-17.	S0053: 1		
HNHFM54	486847	7654	341 - 514	17406	Lys-1 to Asp-9, Lys-15 to Glu-21, Glu-29 to Gly-34.	S0053: 1		
	490923	9635	631 - 329	19387				
HNHFL96	576414	7655	160 - 495	17407	Ser-1 to Lys-10, Gly-16 to Gly-27.	S0053: 1		
HNHFL28	973273	7656	347 - 469	17408	Ser-30 to Gly-38.	S0053: 1		
HNHFL24	903741	7657	28 - 480	17409	His-8 to Gly-18, Ala-39 to Gly-45, Pro-94 to Glu-101.	AR054: 20, AR050: 15, AR061: 7, AR089: 4, AR051: 1 S0053: 1		
HNHFL23	675942	7658	75 - 734	17410	Val-24 to Glu-29, Ser-62 to Ser-68, Ala-75 to Ser-81, Lys-138 to Phe-145.	L0740: 2 and S0053: 1.		
HNHFF79	638126	7659	153 - 281	17411		AR051: 21, AR050: 8 S0053: 1		

HNHFF30	692811	7660	2 - 178	17412	Asn-37 to Cys-43, Gly-50 to Phe-57.	S0053: 1 and L0748: 1.		
HNHFE01	916782	7661	186 - 308	17413		L0758: 2 and S0053: 1.		
HNHFD68	576448	7662	1 - 147	17414	Pro-19 to Gly-32.	AR050: 7, AR054: 6, AR051: 3 S0053: 1		
HNHFB21	842707	7663	9 - 125	17415	Arg-10 to Thr-20.	S0053: 1		
HNHEW83	781217	7664	256 - 498	17416	Lys-2 to Thr-8, Ser-12 to Trp-25, Trp-33 to Cys-39.	L0748: 2 and S0053: 1.		
HNHEW18	666524	7665	54 - 197	17417		S0053: 1, L0438: 1 and L0748: 1.	5	
HNHEU20	668909	7666	72 - 275	17418		S0053: 1 and L0740: 1.		
HNHEQ03	535701	7667	68 - 277	17419	Gly-34 to Ser-41.	S0053: 1		
	535815	9636	68 - 277	19388	Gly-34 to Ser-41.			
	923484	9637	74 - 283	19389	Gly-34 to Ser-41.			
HNHEP86	490390	7668	505 - 278	17420	Glu-1 to Ser-9, Lys-14 to Leu-20, Asp-44 to Gly-57.	S0053: 1		
	785285	9638	71 - 364	19390	Gln-1 to Ala-13, Pro-52 to Gly-57, Leu-84 to Gln-90, Pro-92 to Asp-98.			
HNHEL72	760706	7669	18 - 164	17421		S0053: 1 and L0589: 1.		
HNHEL34	706636	7670	248 - 553	17422	Gln-12 to Met-20, Pro-26 to Gly-31, Phe-39 to Asn-44, Glu-50 to Thr-64.	L0439: 2, S0053: 1 and L0751: 1.		
HNHEL27	506284	7671	114 - 380	17423	Arg-11 to Asn-20.	S0053: 1		
HNHEK69	757649	7672	244 - 402	17424		S0053: 1 and L0439: 1.		
HNHEJ78	800165	7673	20 - 154	17425		S0053: 1		
HNHEJ20	669763	7674	305 - 472	17426	Ser-1 to Trp-15.	S0053: 1 and L0439: 1.		
HNHEI90	888553	7675	22 - 168	17427	Arg-25 to Gln-34.	AR054: 16, AR050: 12, AR051: 8 S0053: 1		
HNHEI37	419752	7676	35 - 205	17428	Pro-46 to Met-51.	L0766: 1 and S0053: 1.		

HNHEH28	973296	7677	22 - 198	17429	Arg-5 to His-11, Thr-13 to Cys-22, Cys-50 to Thr-55.	L0617: 1 and S0053: 1.	
HNHEG71	760464	7678	23 - 190	17430	Leu-7 to Asp-17, Gly-19 to His-27, Pro-33 to Glu-49.	S0053: 1	
HNHEF53	576417	7679	201 - 362	17431	Met-18 to Cys-23.	S0053: 1	
HNHEF08	958854	7680	493 - 230	17432		S0053: 1	
	958883	9639	70 - 339	19391	Ser-46 to Ser-51.		
HNHEE03	924619	7681	351 - 485	17433		S0053: 1 and L0759: 1.	
HNHED88	576529	7682	3 - 206	17434		AR051: 22, AR054: 15, AR050: 11 S0053: 1	
HNHED18	666594	7683	450 - 599	17435	Ser-17 to Asp-23, Ile-32 to Arg-38.	L0749: 2, S0053: 1 and L0748: 1.	
HNHDX25	973295	7684	109 - 330	17436	Thr-50 to Gly-55.	S0053: 1	
HNHDX14	542062	7685	151 - 396	17437		AR054: 14, AR051: 1, AR050: 1 S0053: 1 and L0759: 1.	
	753132	9640	156 - 380	19392			
HNHDX57	734933	7686	1 - 219	17438		S0053: 1 and L0752: 1.	
HNHDX30	692875	7687	302 - 454	17439		S0053: 1 and L0748: 1.	
HNHDX94	883870	7688	257 - 568	17440	Lys-8 to Pro-17, Leu-92 to Ala-99.	L0509: 1 and S0053: 1.	
HNHDX16	422903	7689	246 - 1	17441		L0589: 2 and S0053: 1.	
	661809	9641	91 - 339	19393	Arg-1 to Ser-17, Arg-35 to Ser-40, Gly-64 to Leu-74.		
HNHDX95	559341	7690	67 - 288	17442	Ala-19 to Leu-25.	AR054: 15, AR050: 3 S0053: 1	
	860083	9642	58 - 279	19394	Ala-19 to Leu-25.		
HNHDX93	792467	7691	2 - 349	17443		L0748: 4 and S0053: 1.	
HNHDX16	863116	7692	185 - 3	17444	Thr-30 to Thr-51.	AR051: 28, AR050: 23, AR054: 20 S0053: 1	
HNHDX83	974277	7693	55 - 198	17445		S0053: 1	

HNHDT33	576483	7694	2 - 166	17446		S0053: 1		
HNHDT32	573332	7695	3 - 122	17447	Ser-12 to Lys-24, Lys-29 to Arg-35.	S0053: 1		
HNHDT19	573355	7696	2 - 130	17448	Ser-20 to Pro-26.	S0053: 1		
HNHDT12	576464	7697	3 - 92	17449		S0053: 1		
HNHDT05	932223	7698	2 - 382	17450	Gly-14 to Arg-26, Thr-43 to Arg-58, Pro-63 to Gly-71, Lys-86 to Gly-95.	S0005: 2, S0053: 1 and L0589: 1.		
HNHDM15	660509	7699	215 - 427	17451	Thr-40 to Ser-46, Pro-48 to Pro-58, Ser-65 to Glu-70.	L0747: 2 and S0053: 1.		
HNHDM40	574312	7700	74 - 319	17452		S0053: 1		
HNHDM03	924895	7701	68 - 334	17453	Gln-1 to Leu-12, Ser-16 to His-21.	S0053: 1		
HNHDM07	953883	7702	92 - 379	17454		S0053: 1 and L0361: 1.		
HNHDM52	520297	7703	241 - 71	17455	Pro-49 to Lys-57.	AR050: 2, AR051: 0 S0053: 1		
HNHDM29	904546	7704	24 - 215	17456	Gly-1 to Gly-15, Gly-18 to His-26, Pro-43 to Gly-62.	S0053: 1	17q21	109270, 109270, 109270, 109270, 109270, 113705, 113705, 144200, 148065, 148066, 148066, 148067, 148067, 148069, 148080, 154275, 168610, 171190, 176705, 185800, 200350, 221820, 232200, 249000, 252920, 253250, 600119, 600119, 601363, 601844
HNHDM69	757760	7705	207 - 416	17457		S0053: 1 and L0756: 1.		
HNHDM84	782897	7706	317 - 105	17458		S0053: 1		
	782898	9643	99 - 290	19395	Val-36 to Gly-43.			

	782939	9644	453 - 265	19396	Thr-5 to Glu-11, Lys-28 to Arg-36.			
HNHCY96	796547	7707	428 - 697	17459	Thr-72 to Pro-77, Pro-82 to Phe-87.	S0053: 1		
HNHCY07	953878	7708	49 - 339	17460	Pro-1 to Val-7, Asp-19 to Tyr-25, Lys-39 to Phe-46.	S0053: 1 and L0780: 1.		
HNHCY06	936061	7709	40 - 150	17461		S0053: 1 and L0759: 1.		
HNHCU08	959944	7710	154 - 294	17462		S0053: 1 and L0599: 1.		
HNHCO94	796745	7711	145 - 267	17463		S0053: 1 and L0600: 1.		
HNHCO69	754189	7712	12 - 362	17464		S0053: 1 and L0777: 1.		
HNHCO39	705641	7713	55 - 294	17465	Arg-18 to Val-23.	S0053: 1 and L0592: 1.		
HNHCM69	757751	7714	196 - 366	17466	Cys-8 to Cys-16.	S0053: 1 and L0748: 1.		
HNHCJ11	964952	7715	89 - 211	17467	Leu-9 to Trp-14.	S0053: 1		
HNHC132	861673	7716	183 - 593	17468	Lys-17 to Thr-23, His-95 to Thr-101.	AR051: 23, AR050: 14, AR061: 10, AR054: 4, AR089: 3 S0053: 1		
	956105	9645	963 - 553	19397	Lys-17 to Thr-23, His-95 to Thr-101.			
HNHCG43	574074	7717	10 - 168	17469	Thr-31 to Gly-37.	S0053: 1		
HNHCG32	574080	7718	90 - 161	17470	Ser-6 to Lys-14.	S0053: 1		
HNHCD33	702679	7719	488 - 655	17471		L0748: 6 and S0053: 1.		
HNHCA27	668255	7720	268 - 465	17472		AR054: 16, AR051: 16, AR050: 3 S0053: 1		
HNHBZ39	860113	7721	114 - 284	17473		AR054: 19, AR050: 18, AR051: 13 S0053: 1		
HNHBX96	796539	7722	61 - 252	17474	Thr-8 to Phe-18, Ser-23 to Asn-34, Ala-37 to Leu-46.	S0053: 1 and L0748: 1.		
HNHBW54	583752	7723	186 - 299	17475		S0053: 1		
	840101	9646	235 - 2	19398	Arg-1 to Ala-9, Phe-18 to Asp-27.			
HNHBU02	920662	7724	74 - 280	17476		S0053: 1 and L0589: 1.		

HNHBO78	574093	7725	2 - 160	17477		S0053: 1	
HNHBK57	490789	7726	296 - 60	17478		S0053: 1	
	513489	9647	2 - 211	19399			
HNHB148	860125	7727	243 - 533	17479		S0053: 1	
HNHB102	918387	7728	686 - 474	17480		S0053: 1	
	919069	9648	314 - 3	19400	His-34 to Ser-44, Cys-80 to Glu-86, Pro-95 to Gly-101.		
HNHBG42	714044	7729	241 - 351	17481	Arg-21 to Gln-30.	S0053: 1, L0740: 1 and L0777: 1.	
HNHBF78	773747	7730	76 - 300	17482		S0053: 1 and L0589: 1.	
HNHBF47	949027	7731	923 - 501	17483	His-1 to Thr-14.	AR051: 11, AR054: 8, AR050: 7, AR061: 1, AR089: 0 S0053: 1	1
HNHBE75	766526	7732	82 - 243	17484	Cys-3 to Leu-20.	L0439: 2 and S0053: 1.	
HNHBD73	764293	7733	259 - 134	17485	His-1 to Tyr-7, Ser-17 to Gly-24.	S0053: 1	
HNHBC77	772452	7734	67 - 273	17486		S0053: 1 and L0750: 1.	
HNHAP69	574295	7735	58 - 270	17487	Asn-2 to Arg-9.	S0053: 1	
HNHAP55	574386	7736	2 - 163	17488	Ala-1 to His-11.	S0053: 1	
HNHAP32	574393	7737	99 - 281	17489		S0053: 1	
HNHAP08	959961	7738	132 - 239	17490		S0053: 1	
HNHAM81	574402	7739	1 - 90	17491	Asn-20 to Gln-30.	S0053: 1	
HNHAM80	574404	7740	56 - 160	17492		S0053: 1	
HNHAM33	571334	7741	3 - 95	17493	Thr-1 to Lys-6, Leu-22 to Leu-30.	L0633: 3 and S0053: 1.	
HNHAK41	890594	7742	2 - 166	17494		AR050: 14, AR051: 12, AR054: 2 S0053: 1	
HNHAI41	712605	7743	66 - 233	17495		L0745: 3 and S0053: 1.	
HNHAI07	954088	7744	1 - 168	17496	Arg-1 to Asp-16, Leu-27 to Gly-32.	L0761: 1 and S0053: 1.	
HNHAF61	742116	7745	189 - 686	17497	Pro-5 to Trp-10, Glu-62 to Gly-67, Ala-124 to Asn-129.	AR061: 6, AR089: 3 L0438: 2, L0439: 2, L0752: 2, L0365: 1 and S0053: 1.	

	955094	9649	378 - 1	19401	Thr-56 to Pro-64, Pro-77 to Thr-87, Thr-95 to Glu-100, Asp-112 to Thr-118.			
HNHAE19	527975	7746	429 - 112	17498	Arg-24 to Lys-37, Ser-59 to Pro-70.	L0766: 5, L0788: 1, S0053: 1 and L0747: 1.		
HNHAB36	596822	7747	913 - 653	17499	Arg-19 to Arg-26, Gly-44 to Thr-55, Glu-68 to His-75, Trp-82 to Asp-87.	S0053: 1		
	946565	9650	199 - 2	19402				
	946634	9651	3 - 170	19403	Thr-6 to Cys-17, Gly-23 to Gly-28.			
HNHAB15	973675	7748	420 - 623	17500	Cys-1 to Ser-6.	S0053: 1		
HNGPR43	860142	7749	2 - 304	17501		S0428: 1 and L0600: 1.		
HNGPP74	974046	7750	303 - 557	17502	Gln-1 to Ser-6, Asp-30 to Lys-35.	S0428: 1		
HNGPN54	947104	7751	478 - 113	17503	Pro-16 to Ala-31, Pro-59 to Gly-85, Pro-87 to Pro-96.	AR061: 4, AR089: 1 S0428: 1		
HNGPM65	972821	7752	64 - 270	17504	Arg-1 to Lys-6, Ile-14 to Asn-22.	S0428: 1		
HNGPL75	950134	7753	870 - 559	17505		AR061: 7, AR089: 3 L0766: 1, S0428: 1 and L0592: 1.		
HNGPL05	974049	7754	43 - 270	17506		S0428: 1		
HNGPI87	860162	7755	229 - 426	17507		S0428: 1 and L0589: 1.		
HNGPH83	974045	7756	1 - 147	17508	Tyr-4 to Ile-16.	S0428: 1		
HNGOZ40	969158	7757	13 - 330	17509	Gln-5 to Phe-15, Pro-32 to Ala-39, Pro-49 to Trp-67.	S0428: 1 and L0588: 1.		
HNGOY68	860169	7758	2 - 343	17510	Gly-21 to Leu-30, Pro-51 to Ser-56, Thr-62 to Ala-67.	L0761: 1 and S0428: 1.		
HNGOY32	954991	7759	243 - 590	17511		L0365: 1 and S0428: 1.		
HNGOP63	973415	7760	126 - 557	17512	Pro-22 to Leu-30.	S0428: 1		

HNGOP40	860182	7761	102 - 326	17513	Ser-7 to Ala-14, Arg-25 to His-31, Pro-48 to Gly-62, Gln-68 to Lys-75.	S0428: 1 and L0589: 1.		
HNGO088	860179	7762	95 - 271	17514		S0428: 1 and L0748: 1.		
HNGON56	974038	7763	520 - 738	17515	Glu-1 to Leu-11.	S0428: 1		
HNGON24	860183	7764	205 - 468	17516		L0369: 1 and S0428: 1.		
HNGOK04	972752	7765	3 - 611	17517	Thr-6 to Ser-13, Leu-52 to Gly-61, Arg-66 to Arg-72, Arg-131 to Pro-136, Arg-145 to Tyr-150, Gly-163 to Ser-168, Ala-186 to Gly-193.	S0428: 1		
HNGOF70	860195	7766	7 - 243	17518		L0766: 2 and S0428: 1.		
HNGNY72	860198	7767	167 - 385	17519	Met-20 to Gly-26.	L0385: 1 and S0428: 1.		
HNGNY16	806017	7768	312 - 590	17520	Pro-35 to Trp-43.	S0428: 1 and L0756: 1.		
HNGNY02	918626	7769	42 - 470	17521	Gln-1 to Gly-9, Gly-40 to Asn-53, Arg-67 to Gln-72, His-100 to Trp-107, Arg-135 to Pro-140.	L0385: 1, L0365: 1 and S0428: 1.		
HNGNX66	974035	7770	391 - 618	17522	Gly-1 to Val-30, Lys-37 to Glu-53.	S0428: 1		
HNGNU85	974037	7771	262 - 594	17523	Arg-27 to Ser-32.	S0428: 1		
HNGNS91	973432	7772	245 - 496	17524	Lys-30 to Asp-37.	S0428: 1		
HNGNN81	974124	7773	96 - 287	17525	Leu-3 to Gly-13, Ala-17 to Pro-26, Glu-44 to Lys-49.	S0428: 1		
HNGNN01	915226	7774	282 - 512	17526		S0428: 1 and L0758: 1.		
HNGNJ46	860212	7775	135 - 470	17527	Leu-12 to Cys-19, Gln-27 to Asn-35.	L0779: 2, L0663: 1, S0428: 1 and L0747: 1.		
HNGNI78	860216	7776	186 - 380	17528	Pro-38 to Trp-44.	S0428: 1 and L0596: 1.		
HNGND75	974968	7777	169 - 450	17529	Pro-3 to Gln-13, Gly-39 to Cys-44, Thr-57 to Trp-66,	S0428: 1		



HNGND01	915294	7778	446 - 580	17530	Thr-81 to Ser-87.	S0428: 1 and L0749: 1.	
HNGNA49	974907	7779	371 - 592	17531		S0428: 1	
HNGMY91	974056	7780	282 - 575	17532	Val-23 to Gly-29, Ser-48 to Cys-58.	S0428: 1	
HNGMW65	950173	7781	295 - 26	17533	Ile-26 to Thr-37.	AR089: 119, AR061: 16 S0428: 1	
HNGMT40	930430	7782	2 - 151	17534		L0662: 1, S0428: 1 and L0759: 1.	
HNGMM11	966099	7783	40 - 375	17535	Pro-1 to Leu-13, Pro-19 to Pro-27.	S0428: 1 and L0777: 1.	
HNGML12	934389	7784	3 - 179	17536		L0761: 1, L0766: 1, S0428: 1 and L0756: 1.	
HNGMF02	955660	7785	394 - 642	17537		L0809: 2, L0783: 1, L0791: 1, S0428: 1, L0740: 1 and L0752: 1.	
HNGME04	927020	7786	200 - 592	17538		S0428: 1, L0748: 1 and L0749: 1.	
HNGMD92	790887	7787	71 - 247	17539	Arg-39 to Asp-56.	S0428: 1 and L0361: 1.	
HNGMD48	974358	7788	215 - 400	17540		S0428: 1	
HNGMC01	915310	7789	525 - 830	17541	Gln-50 to Ser-61.	L0747: 3 and S0428: 1.	
HNGLY12	968919	7790	260 - 439	17542	Thr-8 to Leu-13, Glu-22 to Asn-32.	S0428: 1 and L0758: 1.	
HNGLY08	948825	7791	81 - 425	17543	Asn-80 to Ser-86, Phe-98 to Glu-105.	AR051: 17, AR050: 9, AR054: 7 S0428: 1	
HNGLS90	787446	7792	253 - 438	17544	Ala-26 to Ala-31, Ser-57 to Arg-62.	S0428: 1, L0748: 1 and L0749: 1.	
HNGLR54	972812	7793	314 - 508	17545	Pro-20 to Gln-25, Glu-55 to Ala-60.	S0428: 1	
HNGLO21	974067	7794	165 - 479	17546	Pro-22 to Thr-28, Arg-35 to Pro-44.	S0428: 1	
HNGLL07	952236	7795	3 - 146	17547		S0428: 1 and L0731: 1.	
HNGLK36	974584	7796	402 - 557	17548	Gln-7 to Asp-21, Glu-27 to Gly-37.	S0428: 1	
HNGKY10	963459	7797	58 - 156	17549		L0659: 1 and S0428: 1.	

HNGKS34	974368	7798	189 - 356	17550	Glu-36 to Pro-42.	S0428: 1	
HNGKQ80	860306	7799	90 - 377	17551	Val-20 to Glu-27.	S0428: 1 and L0589: 1.	
HNGKO32	860307	7800	118 - 414	17552	Pro-4 to Ala-9, Val-18 to Trp-30, His-48 to Leu-59, Phe-91 to Asn-99.	S0428: 1, L0748: 1 and L0749: 1.	
HNGKM74	942758	7801	2 - 988	17553	Phe-148 to Lys-155, Arg-162 to Glu-168, Arg-205 to Thr-213, Pro-235 to Leu-241.	AR051: 17, AR050: 17, AR061: 7, AR089: 3, AR054: 3 L0800: 1 and S0428: 1.	
HNGKL24	974360	7802	319 - 540	17554		S0428: 1	
HNGKJ02	918622	7803	375 - 647	17555	Gly-23 to Pro-28, Pro-31 to Asp-36, Ala-38 to Trp-59, His-71 to Gln-76, Lys-79 to Glu-86.	S0428: 1 and L0731: 1.	
HNGKH07	952210	7804	104 - 247	17556	Pro-2 to Thr-9.	L0655: 1 and S0428: 1.	
HNGKG03	922036	7805	120 - 323	17557		L0518: 1 and S0428: 1.	
HNGKD49	974364	7806	295 - 444	17558		S0428: 1	
HNGKC69	834922	7807	137 - 418	17559	Lys-29 to Thr-40, Arg-58 to Leu-65, Gln-67 to Arg-80, Ser-85 to Asp-92.	AR051: 14, AR054: 4, AR050: 1 S0428: 1	
HNGKC21	974581	7808	102 - 233	17560		S0428: 1	
HNGKC06	934309	7809	3 - 431	17561	Ser-21 to Lys-29, Gln-31 to His-37.	S0428: 1 and L0758: 1.	
HNGKA11	966117	7810	118 - 300	17562		L0787: 1, S0428: 1 and L0592: 1.	
HNGJV82	778921	7811	305 - 439	17563	Gly-14 to Arg-21, Gln-31 to Gln-37.	S0052: 1 and L0592: 1.	
HNGJR05	860357	7812	212 - 460	17564	Ser-16 to Asp-27, Arg-37 to Gly-44.	S0052: 1 and L0589: 1.	
HNGJQ96	796414	7813	37 - 282	17565	Thr-24 to Thr-29, Thr-42 to Lys-47, Ala-52 to Asn-64.	S0052: 1	
HNGJQ36	708121	7814	45 - 242	17566	Pro-46 to Gly-53.	S0052: 1	

HNGJQ08	959511	7815	26 - 103	17567			S0052: 1		
HNGJL47	720363	7816	3 - 404	17568	Arg-31 to Ser-37, Pro-39 to Pro-45.		L0771: 8, L0591: 2, L0788: 1 and S0052: 1.		
HNGJK64	746615	7817	22 - 147	17569	Ser-19 to Leu-26, Leu-30 to Gln-35.		S0052: 1		
HNGJK63	839947	7818	2 - 181	17570			S0052: 1 and L0758: 1.		
HNGJK40	711219	7819	138 - 380	17571	Thr-26 to Gly-31.		S0052: 1		
HNGJI40	711211	7820	2 - 385	17572	Ala-6 to Gly-11, Phe-21 to Leu-28, Cys-45 to Ile-53.		S0052: 1		
HNGJI04	615285	7821	3 - 164	17573	Gly-34 to Phe-41.		S0052: 1		
HNGJG75	942946	7822	90 - 662	17574	His-1 to Phe-14, Gln-18 to Arg-24, Ser-44 to His-49, Phe-121 to Asp-131, Ser-149 to Thr-174.		AR061: 4, AR089: 1 S0052: 1		
	951158	9652	469 - 251	19404					
HNGJG35	422897	7823	393 - 253	17575			S0052: 1		
HNGJE38	495689	7824	630 - 109	17576			S0052: 1 and L0758: 1.		
	860403	9653	95 - 379	19405	Pro-39 to Cys-52.				
HNGJE23	600366	7825	634 - 467	17577	Tyr-17 to Lys-22, Gly-46 to Thr-54.		S0052: 1		
	860413	9654	463 - 296	19406	Lys-6 to Leu-12.				
HNGJE08	973790	7826	392 - 547	17578	Pro-40 to Glu-50.		S0052: 1		
HNGJE01	973797	7827	392 - 529	17579			S0052: 1		
HNGJC68	888447	7828	103 - 348	17580			AR051: 86, AR050: 64, AR054: 54 S0052: 1		
HNGJC29	695660	7829	96 - 425	17581	Trp-1 to Arg-8, Gln-14 to Thr-21, Ser-39 to Gly-51, Arg-65 to Gln-72, Ser-80 to Glu-85, His-90 to Gly-96.		S0052: 1 and L0747: 1.		
HNGJB49	723004	7830	3 - 302	17582	His-7 to Gly-22, His-62 to Asn-71.		L0748: 5, S0052: 1 and L0749: 1.		

HNGJA75	888461	7831	95 - 256	17583	Thr-17 to Leu-26, Gly-47 to Gly-53.	AR051: 25, AR050: 16, AR054: 1 S0052: 1		
HNGIX71	760398	7832	3 - 293	17584	His-30 to Gln-37.	L0748: 2 and S0052: 1.		
HNGIW45	717698	7833	1 - 198	17585	Ser-46 to Lys-56.	S0052: 1		
HNGIS92	792748	7834	1 - 540	17586				
HNGIS70	757216	7835	373 - 621	17587	Ser-66 to Ser-73.	S0052: 1 and L0439: 1.		
HNGIS02	920221	7836	327 - 542	17588	Ser-15 to Lys-24.	S0052: 1 and L0740: 1.		
HNGIR10	964715	7837	317 - 496	17589	Pro-7 to Phe-12.	L0769: 1 and S0052: 1.		
HNGIQ78	772866	7838	112 - 324	17590	Asp-6 to Ser-20, Arg-46 to Phe-53, Pro-60 to Leu-67.	L0769: 3 and S0052: 1. S0052: 1		
	773431	9655	586 - 365	19407				
HNGIQ71	495771	7839	487 - 176	17591	Ala-1 to Cys-7, Gln-21 to Gly-40, Pro-49 to Gly-54, Ser-72 to Trp-91.	S0052: 1		
	860506	9656	308 - 658	19408				
HNGIP47	720374	7840	247 - 450	17592	His-15 to Met-25.	S0052: 1 and L0589: 1.		
HNGIP27	860515	7841	210 - 476	17593		S0052: 1		
HNGIO64	487439	7842	231 - 401	17594		S0052: 1		
	927636	9657	396 - 280	19409	Ala-15 to Arg-22.			
HNGIOS2	727196	7843	207 - 422	17595		S0052: 1 and L0756: 1.		
HNGIL94	793171	7844	123 - 326	17596	Pro-15 to Arg-22.	S0052: 1		
HNGIL84	781970	7845	50 - 340	17597		L0747: 2 and S0052: 1.		
HNGIL82	812699	7846	174 - 368	17598	Ile-3 to Trp-14, Glu-54 to Asn-65.	S0052: 1		
HNGIL51	725003	7847	1 - 249	17599	Gly-1 to Glu-8, Thr-37 to Arg-47, Pro-57 to Arg-62, Pro-78 to Thr-83.	S0052: 1	2p11.2	178640, 216900
HNGIL22	860525	7848	76 - 306	17600	Ala-1 to Thr-6.			
HNGIJ51	868068	7849	178 - 348	17601	Thr-9 to Cys-14, Lys-38 to Arg-45.	L0527: 1 and S0052: 1. L0752: 2 and S0052: 1.		
HNGHY44	973977	7850	245 - 424	17602	Asp-25 to Gly-32.	S0052: 1		

HNGHO94	793271	7851	1 - 219	17603	Asn-1 to His-10, Pro-53 to Ala-72.	S0052: 1		
HNGHM61	576221	7852	39 - 236	17604	Pro-4 to His-18, Pro-28 to Arg-39, Gln-53 to Gly-58.	S0052: 1		
HNGHL46	860541	7853	291 - 476	17605		S0052: 1		
HNGHI01	916757	7854	1 - 204	17606	Gln-1 to Asp-9, Asp-19 to Gly-25, His-58 to Ala-65.	S0052: 1 and L0758: 1.		
HNGHG39	860554	7855	3 - 248	17607	His-1 to Met-8.	S0052: 1 and L0366: 1.		
HNGHD68	576315	7856	246 - 1	17608		S0052: 1		
HNGGV02	920377	7857	212 - 430	17609		S0052: 1		
HNGGT08	959649	7858	44 - 193	17610		S0052: 1 and L0748: 1.		
HNGGP91	576251	7859	1 - 360	17611		L0743: 2 and S0052: 1.		
HNGGP55	578450	7860	91 - 186	17612		S0052: 1		
HNGGL74	765644	7861	828 - 487	17613	Tyr-21 to Tyr-26, His-36 to Lys-44, Leu-70 to Gly-76.	AR050: 136, AR054: 117, AR051: 105 S0052: 1		
HNGGF86	860568	7862	247 - 426	17614	Thr-1 to His-11.	S0052: 1		
HNGGB58	738213	7863	16 - 156	17615		S0052: 1 and L0754: 1.		
HNGGB28	703315	7864	2 - 199	17616	Ala-1 to Ala-10, Pro-12 to Ser-19, Asp-31 to Gly-44, Pro-49 to Arg-66.	S0052: 1		
HNGFX89	506492	7865	202 - 468	17617	Asn-13 to Ala-19.	AR050: 19, AR051: 15, AR054: 8 S0052: 1		
	578679	9658	34 - 144	19410				
	578680	9659	529 - 413	19411				
HNGFX75	608695	7866	394 - 630	17618		S0052: 1		
HNGFU33	702584	7867	472 - 663	17619	Gly-2 to Phe-8, Pro-17 to Asn-22, Met-56 to Gly-62.	L0747: 3, L0803: 2, L0659: 2, L0666: 2, L0662: 1, L0546: 1, S0052: 1, L0750: 1, L0779: 1, L0752: 1 and L0758: 1.		
HNGFT02	920480	7868	212 - 319	17620		S0052: 1 and L0747: 1.		

HNGFR06	935821	7869	2 - 421	17621	Leu-41 to Glu-52.	S0052: 1, L0439: 1 and L0754: 1.		
HNGFP92	842276	7870	439 - 621	17622	Gly-1 to Asp-7, Ala-17 to Gly-22.	S0052: 1		
	889744	9660	140 - 442	19412	Thr-3 to Ala-33, Ala-44 to Cys-49, Phe-64 to Trp-71, Ala-84 to Arg-89, Ala-94 to Ser-101.			
HNGFN70	872950	7871	3 - 191	17623	Ser-10 to Asn-17, Gly-32 to Lys-44.	AR051: 41, AR050: 40, AR054: 33 S0052: 1		
HNGFM17	664280	7872	345 - 635	17624	Leu-11 to Glu-19, Gly-27 to Ala-36, Ser-45 to Ser-59.	S0052: 1 and L0748: 1.		
	703419	7873	1 - 309	17625	Thr-2 to Trp-9, Val-33 to Leu-38, Gly-43 to Cys-51.	L0518: 1 and S0052: 1.		
HNGFI11	967304	7874	1 - 285	17626	Glu-63 to Ser-68, Asp-75 to Pro-82.	L0517: 1 and S0052: 1.		
HNGFH90	789066	7875	45 - 317	17627	Gln-11 to Gln-16, Ser-24 to Arg-29, Ser-39 to Gly-45.	S0052: 1 and L0594: 1.		
	738240	7876	1 - 201	17628	Lys-30 to Met-35, Pro-49 to Gly-56, His-72 to Ser-77, Ala-82 to Gly-92.	L0748: 2 and S0052: 1.		
HNGFH30	823363	7877	2582 - 2280	17629	Lys-30 to Met-35, Pro-49 to Gly-56, His-72 to Ser-77, Ala-82 to Gly-92.	AR050: 17, AR054: 1 S0052: 1		
	824134	9661	227 - 649	19413	Lys-30 to Met-35, Pro-49 to Gly-56.			
HNGFG10	854048	9662	2 - 79	19414	Lys-1 to Leu-12.			
	968059	7878	800 - 1042	17630	Ser-64 to His-69.	L0747: 3, L0589: 2 and S0052: 1.		
HNGFF50	941480	7879	1 - 342	17631	Ala-3 to Thr-11, Ala-33 to His-43, Gly-67 to Leu-74.	S0052: 1		

HNGFE75	486855	7880	290 - 502	17632	Pro-96 to His-102, Gln-104 to Thr-114.			
	490615	9663	493 - 89	19415	Ser-56 to Arg-64.		S0052: 1	
	871493	7881	108 - 470	17633	Leu-10 to Gln-17.		S0052: 1 and L0596: 1.	
HNGFE58	927579	7882	101 - 250	17634	Pro-17 to Trp-22, Ile-26 to Gly-31, Ala-35 to Gly-46, Asp-49 to Glu-88, Met-105 to Pro-113.		L0775: 1 and S0052: 1.	
	666626	7883	102 - 395	17635	Trp-17 to Met-23, Gly-25 to Asn-40, Phe-43 to Arg-48.		S0052: 1, L0779: 1 and L0731: 1.	
	888324	7884	1 - 375	17636	Ser-6 to Ser-13, Leu-20 to Pro-27.		AR050: 23, AR051: 19, AR054: 13 S0052: 1	
HNGEX10	868073	7885	248 - 460	17637	Gly-1 to Trp-9, Gly-45 to Asp-57, Gly-64 to Trp-81.		L2245: 1 and S0052: 1.	
	860615	7886	129 - 452	17638	Glu-1 to Asp-9.		L0773: 1 and S0052: 1.	
	964163	9664	569 - 159	19416	Ala-1 to Ser-6, Pro-24 to His-36, Val-80 to Asn-88, Gly-94 to Gln-100.			
HNGEW38	573234	7887	298 - 690	17639	Pro-19 to Gln-25.		S0052: 1 and L0742: 1.	123620, 188826, 600850, 601669
	669811	7888	320 - 535	17640	Trp-7 to Pro-12, Leu-38 to Lys-44, Thr-69 to Arg-76, Leu-93 to Ser-99, His-115 to Ser-124.		22q12.1	
	789373	7889	3 - 377	17641	Glu-6 to Lys-22, Ser-42 to Ser-55, Ser-58 to Ala-65.		L0754: 2 and S0052: 1.	
HNGER86	578910	7890	3 - 263	17642	His-1 to Ile-16.		S0052: 1	
	578909	7891	10 - 324	17643	Gln-1 to Ala-7, Trp-15 to Thr-21.			
					Gly-11 to Pro-17,		S0052: 1	

							Trp-31 to Trp-38, Ser-45 to Met-51.				
HNGER62	578922	7892	107 - 307	17644			Gln-6 to Arg-18.		S0052: 1		
HNGER61	578907	7893	116 - 325	17645			Ser-16 to Thr-24, Ala-37 to Ser-49.		S0052: 1		
HNGER50	576479	7894	60 - 230	17646			Lys-8 to Cys-14.		S0052: 1		
HNGER38	578908	7895	1 - 138	17647			Gly-1 to Cys-7, Asp-23 to Gly-31, Cys-34 to Asn-40.		S0052: 1		
HNGER26	860623	7896	127 - 384	17648					S0052: 1		
HNGEO79	951489	7897	200 - 640	17649			Gln-41 to Asp-48, Ser-67 to Leu-72, Thr-79 to Ser-84, Ile-96 to Ser-103, Arg-120 to Ser-127.		AR061: 46, AR089: 19, AR051: 12, AR054: 10, AR050: 9 S0052: 1 and L0758: 1.		
HNGEN04	586457	7898	30 - 302	17650			Arg-1 to Gly-13, His-19 to Gly-24.		AR050: 63, AR051: 54, AR054: 40 S0052: 1		
HNGEK57	734923	7899	92 - 307	17651					S0052: 1 and L0592: 1.		
HNGEK16	578914	7900	2 - 172	17652			Ala-1 to Asp-9.		S0052: 1		
HNGEI44	800199	7901	13 - 345	17653			Pro-10 to Phe-15, Ala-59 to Pro-66, Pro-69 to Gln-85.		S0052: 1		
HNGEI11	967314	7902	121 - 276	17654					S0052: 1 and L0589: 1.		
HNGEG07	953658	7903	274 - 411	17655			Lys-26 to His-46.		S0052: 1 and L0589: 1.		
HNGEF81	570236	7904	2 - 220	17656			Glu-3 to Asp-13, Pro-18 to His-39.		S0052: 1		
	590251	9665	483 - 731	19417			Gly-10 to Asn-20, Glu-61 to Gly-79.				
	860649	9666	246 - 560	19418			Asp-10 to Gly-16.				
HNGEE10	968043	7905	72 - 251	17657					S0052: 1 and L0589: 1.		
HNGED92	654085	7906	257 - 3	17658			Ser-1 to Ile-7, Pro-32 to His-38, Pro-60 to Ala-69, Arg-71 to Gly-79.		S0052: 1		
	846048	9667	56 - 265	19419							



HNGED46	838885	7907	259 - 441	17659	Glu-29 to Leu-34, Gly-43 to Lys-50.	S0052: 1		
HNGEB84	783132	7908	83 - 235	17660	Arg-31 to Ala-37.	S0052: 1 and L0748: 1.		
HNGEA17	561293	7909	1 - 261	17661	Leu-8 to Arg-15, Gly-72 to Leu-81.	S0052: 1		
HNGDZ93	888677	7910	1 - 132	17662	Ile-20 to Asn-25, Pro-33 to Ser-43.	AR051: 21, AR054: 7, AR050: 1 S0052: 1		
HNGDW53	973311	7911	153 - 380	17663		S0052: 1		
HNGDW19	502499	7912	233 - 448	17664		S0052: 1		
	511193	9668	602 - 261	19420	His-10 to Lys-19, Arg-21 to Cys-29, Pro-31 to Ser-41, Gln-47 to Trp-54, Ala-57 to Gly-69, Gln-84 to Phe-102.			
HNGDV38	572912	7913	50 - 136	17665		S0052: 1		
HNGDV26	572906	7914	70 - 249	17666	Pro-24 to Arg-38.	S0052: 1		
HNGDV15	572902	7915	3 - 275	17667	Ser-1 to Asn-16, Asn-27 to Gln-41.	S0052: 1		
HNGDV02	920504	7916	3 - 167	17668	Ser-24 to Ser-35.	S0052: 1		
HNGDV01	916989	7917	73 - 204	17669	Gln-16 to His-27, Ala-32 to Cys-37.	S0052: 1		
HNGDS21	396889	7918	538 - 404	17670	Ile-40 to Arg-45.	S0052: 1		
	670757	9669	151 - 291	19421	Pro-32 to Trp-37.			
HNGDR65	572896	7919	116 - 223	17671	Asp-1 to Ser-7.	S0052: 1		
HNGDQ68	753164	7920	4 - 318	17672	Gly-1 to Gly-8, Thr-16 to Gly-25, Gly-65 to Glu-80.	S0052: 1 and L0592: 1.		
HNGDQ56	733550	7921	7 - 270	17673	Phe-64 to Arg-71, Gln-77 to His-83.	S0052: 1 and L0361: 1.		
HNGDO68	753580	7922	3 - 107	17674		S0052: 1 and L0748: 1.		
HNGDO54	521883	7923	225 - 368	17675	Lys-9 to Leu-14.	S0052: 1		
HNGDO53	574450	7924	68 - 217	17676		S0052: 1		
HNGDO52	868772	7925	1 - 192	17677	Gly-9 to Gly-15, Pro-33 to Pro-40.	S0052: 1		

HNGDO40	574449	7926	166 - 2	17678	Pro-1 to Lys-11.	S0052: 1	
HNGDO30	574446	7927	45 - 131	17679	Glu-24 to Ser-29.	S0052: 1	
HNGDO29	526804	7928	186 - 347	17680	Gln-11 to Gln-17.	S0052: 1	
HNGDO18	526514	7929	122 - 238	17681	Arg-15 to Glu-24.	S0052: 1	
HNGDO06	936059	7930	136 - 261	17682	Ser-15 to Phe-22, Ala-35 to Arg-41.	S0052: 1	
HNGDO05	932400	7931	51 - 125	17683		S0052: 1	
HNGDO04	523469	7932	219 - 320	17684	Leu-13 to Arg-19.	S0052: 1	
HNGDM11	967512	7933	391 - 534	17685		L0766: 1, S0052: 1 and L0754: 1.	
HNGDL51	860671	7934	1 - 258	17686	Asn-6 to Ser-15, Pro-29 to Ser-34, Ser-49 to Arg-54.	AR054: 26, AR050: 23, AR051: 22 S0052: 1	
HNGDF94	796744	7935	24 - 128	17687		S0052: 1	
HNGDF70	506694	7936	87 - 206	17688		S0052: 1	
HNGDF58	506693	7937	19 - 315	17689	Glu-36 to Ala-46, Phe-50 to Cys-56.	L0748: 2 and S0052: 1.	
HNGDF38	574349	7938	112 - 240	17690	Asp-1 to Asn-8.	S0052: 1	
HNGDF10	968240	7939	135 - 350	17691		S0052: 1	
HNGDE79	781680	7940	269 - 403	17692	Glu-35 to Leu-41.	S0052: 1 and L0748: 1.	
HNGDE74	765812	7941	1 - 120	17693		L0748: 2 and S0052: 1.	
HNGDD27	860680	7942	91 - 252	17694	Met-26 to Ser-32.	S0052: 1	
HNGDD03	924933	7943	59 - 202	17695	Arg-6 to Asn-12.	S0052: 1	
HNGDD02	920675	7944	70 - 186	17696		S0052: 1	
HNGDB78	772804	7945	1 - 195	17697		S0052: 1	
HNGDB61	742043	7946	177 - 452	17698		S0052: 1 and L0589: 1.	
HNGDB59	688019	7947	33 - 143	17699	Asn-1 to Lys-12.	S0052: 1	
HNGDB54	574359	7948	12 - 191	17700		S0052: 1	
HNGDB40	574346	7949	3 - 110	17701	Lys-6 to Arg-12.	S0052: 1	
HNGDB16	574352	7950	2 - 100	17702	Lys-20 to Gly-25, Arg-27 to Thr-33.	S0052: 1	
HNGDB04	576460	7951	2 - 115	17703	Thr-4 to Ala-11.	S0052: 1	
HNGDA08	959964	7952	180 - 455	17704	Ser-1 to Gly-6, Arg-11 to Trp-20.	L0770: 1 and S0052: 1.	
HNGCZ54	730895	7953	62 - 292	17705		S0052: 1 and L0746: 1.	

HNGCY60	827144	7954	1 - 447	17706	Lys-1 to Ser-8.	S0052: 1 and L0747: 1.	
HNGCY10	968247	7955	121 - 246	17707	Ala-30 to Ser-40.	L0766: 1 and S0052: 1.	
HNGCQ38	544484	7956	302 - 87	17708	Arg-33 to Phe-38.	S0052: 1	
	860692	9670	35 - 226	19422			
HNGCP14	417271	7957	1 - 258	17709		S0052: 1, L0748: 1 and L0731: 1.	
HNGCO71	663340	7958	271 - 2	17710	Lys-6 to Gly-12, Pro-40 to Asn-47.	S0052: 1	
	889333	9671	746 - 510	19423			
	889334	9672	3 - 185	19424			
	889335	9673	2 - 145	19425			
HNGCO15	494338	7959	200 - 3	17711	Arg-11 to Leu-17.	S0052: 1	
	519229	9674	1 - 132	19426	Gly-10 to Phe-19.		
	825388	9675	1 - 255	19427			
	704547	7960	219 - 410	17712		L0743: 2 and S0052: 1.	
HNGCG39	961700	7961	803 - 1195	17713	Ser-1 to Cys-10, Gly-21 to Asp-26.	S0052: 1	
HNGCE81	971688	9676	576 - 184	19428	Ser-1 to Cys-10, Gly-21 to Asp-26.		
	971689	9677	143 - 331	19429	Arg-1 to Trp-31, Pro-33 to Arg-50, Leu-52 to Arg-60.		
	971690	9678	261 - 563	19430	Thr-27 to Ala-34, Arg-36 to Arg-44, Pro-89 to Ser-100.		
	860699	7962	536 - 745	17714	Gly-8 to Glu-18.	AR051: 24, AR054: 9, AR050: 3 S0052: 1	
HNGCE40	638114	7963	192 - 419	17715	Pro-39 to Ser-47.	S0052: 1	
HNGCC02	917319	9679	186 - 413	19431			
	953894	7964	32 - 277	17716	Ala-30 to Lys-35.	S0052: 1 and L0749: 1.	
HNGBW07	494334	7965	263 - 96	17717	Glu-43 to Tyr-51.	S0052: 1	
HNGBS77	860721	9680	769 - 975	19432	Asn-1 to Lys-6.		
	574401	7966	76 - 291	17718	Thr-20 to Gly-27.	AR051: 11, AR054: 8, AR050: 1	

HNGBO01	921413	7967						S0052: 1			
HNGBN12	920949	7968	1 - 144	17719			Ser-70 to Trp-77.	S0052: 1 and L0759: 1. L0800: 1, S0052: 1 and L0758: 1.			
HNGBL40	880778	7969	72 - 356	17721				S0052: 1 and L0361: 1.			
HNGBF25	678767	7970	331 - 507	17722			Pro-15 to Leu-22.	S0052: 1 and L0745: 1.			
HNGAZ70	757413	7971	138 - 359	17723			Pro-69 to Ser-74.	S0052: 1 and L0754: 1.			
HNGAZ56	733631	7972	186 - 416	17724			Asn-8 to Lys-14, Arg-42 to Arg-48, Ile-50 to Gly-55.	L0747: 2 and S0052: 1.			
HNGAZ08	959977	7973	242 - 436	17725				L0766: 1, S0052: 1 and L0779: 1.			
HNGAX93	792525	7974	198 - 1	17726				S0052: 1 and L0749: 1.			
HNGAW50	723632	7975	3 - 107	17727				L0748: 2, S0052: 1 and L0749: 1.			
HNGAV20	669901	7976	1 - 186	17728				L0748: 4, L0659: 1 and S0052: 1.			
HNGAR02	920736	7977	105 - 332	17729			Arg-25 to Glu-41.	L0375: 1, L0365: 1 and S0052: 1.			
HNGAQ75	766512	7978	3 - 149	17730			Arg-6 to Leu-13.	S0052: 1			
HNGAQ73	574649	7979	1 - 150	17731				S0052: 1			
HNGAQ49	574652	7980	25 - 171	17732				S0052: 1			
HNGAQ38	574658	7981	3 - 125	17733			Pro-10 to Thr-19.	S0052: 1			
HNGAQ37	575492	7982	3 - 149	17734			Val-22 to Ser-34.	S0052: 1			
HNGAQ14	574660	7983	27 - 95	17735			Pro-1 to Phe-8.	S0052: 1			
IINGAQ02	920756	7984	5 - 115	17736			Gln-10 to Gln-18, His-20 to Asn-27.	S0052: 1			
HNGAQ01	921434	7985	3 - 161	17737			Pro-16 to Gly-25.	S0052: 1			
HNGAP69	513808	7986	406 - 666	17738				S0052: 1			
	537606	9681	417 - 40	19433							
HNGAM31	426200	7987	287 - 39	17739			Thr-46 to Ser-54.	S0052: 1			
	860765	9682	117 - 374	19434							
HNGAJ78	773425	7988	281 - 637	17740			Pro-7 to Ser-14.	AR054: 44, AR050: 36, AR051: 5 S0052: 1			

HNGAD20	888315	9683	1 - 219	19435		AR051: 23, AR054: 12, AR050: 3 S0052: 1		
HNFIJ67	751605	7990	75 - 260	17742	Glu-48 to Ala-54.	H0271: 1 and L0599: 1.		
HNFIJ68	959428	7991	326 - 520	17743	Asn-1 to Leu-14, Lys-25 to Arg-30.	H0271: 1, L0748: 1 and L0758: 1.		
HNFIY76	767681	7992	143 - 316	17744		H0416: 1 and L0749: 1.		
HNFIW53	467056	7993	172 - 363	17745	Ala-24 to Lys-29, Gly-37 to Arg-52.	H0416: 1 and L0745: 1.		
HNFIW14	658129	7994	2 - 265	17746		H0416: 1 and L0591: 1.	17	
HNFIW17	429602	7995	314 - 550	17747	Gln-1 to Gly-11, Gln-22 to Ser-29.	H0416: 1		
HNFIN07	460818	9684	248 - 24	19436	Thr-1 to Thr-12.			
HNFIJ07	933330	7996	257 - 526	17748	Asp-1 to Thr-10.	H0416: 1 and L0748: 1.		
HNFIJ11	966347	7997	162 - 434	17749	Pro-8 to Gly-13.	H0416: 1		
HNFIJ59	739358	7998	283 - 450	17750	His-8 to Ser-16, Asp-50 to Gly-55.	H0416: 1 and L0748: 1.		
HNFIY59	951005	7999	948 - 769	17751		H0271: 1		
HNFIH58	735299	8000	320 - 673	17752	Glu-49 to Glu-58, His-70 to Gly-75.	H0271: 1 and L0748: 1.		
HNFIH96	716913	8001	3 - 269	17753	Pro-9 to Thr-20, Gln-55 to Trp-65, Glu-70 to Ala-85.	L0766: 2, L0439: 2, H0271: 1 and L0756: 1.		
HNFIH61	741901	8002	123 - 293	17754		H0271: 1		
HNFIH56	733297	8003	230 - 57	17755		H0271: 1		
HNFIH09	868091	9685	439 - 600	19437				
HNFIH09	961165	8004	188 - 463	17756	Lys-1 to Glu-8, Gln-20 to Ala-27.	H0271: 1 and L0592: 1.		
HNFIH84	783199	8005	1 - 93	17757	Pro-26 to Arg-31.	L0745: 2, L0746: 2, H0271: 1 and L0748: 1.		
HNFIH65	574598	8006	3 - 95	17758	His-1 to Cys-12.	H0271: 1		
HNFIH42	526844	8007	2 - 118	17759		H0271: 1		
HNFIH17	574597	8008	80 - 184	17760	Asn-1 to Glu-13.	H0271: 1		
HNFIH36	574601	8009	22 - 150	17761		H0271: 1		

HNFGH32	574605	8010	127 - 240	17762			H0271: 1		
HNFGG80	574602	8011	1 - 72	17763	Thr-8 to Arg-14.		H0271: 1		
HNFGG18	574608	8012	37 - 144	17764			H0271: 1 and L0756: 1.		
HNFGG06	936086	8013	2 - 295	17765			H0271: 1		
HNFGF88	522077	8014	126 - 257	17766			H0271: 1		
HNFGF66	860896	8015	88 - 372	17767			H0271: 1 and L0758: 1.		
HNFGF52	522293	8016	61 - 360	17768			H0271: 1		
HNFGF37	574609	8017	41 - 223	17769	Leu-50 to Val-55.		H0271: 1	22q	
HNFGF80	571306	8018	75 - 245	17770	Lys-1 to Asp-6.		H0271: 1		
HNFGF41	504165	8019	2 - 142	17771	Gly-30 to Lys-36.		H0271: 1		
HNFGF81	778250	8020	297 - 497	17772	Cys-37 to Asp-42.		L0599: 2 and H0271: 1.		
HNFGA92	790617	8021	222 - 419	17773			H0271: 1 and L0750: 1.		
HNFGA85	521880	8022	51 - 365	17774			H0271: 1		
HNFGA57	571305	8023	3 - 113	17775			H0271: 1		
HNFFU64	578096	8024	172 - 282	17776			H0271: 1, UNKWN: 1 and L0600: 1.		
HNFFR38	455273	8025	704 - 339	17777			H0271: 1		
	860903	9686	15 - 284	19438	Gln-30 to Lys-35, Leu-54 to His-60.				
HNFFQ29	860905	8026	114 - 404	17778	Ser-76 to Pro-86.		H0271: 1 and L0774: 1.		
HNFFO20	836239	8027	195 - 350	17779	Phe-14 to Leu-21, His-33 to Glu-40.		H0271: 1 and L0746: 1.		
HNFFL57	786899	8028	208 - 423	17780	Leu-15 to Gly-20.		H0271: 1 and L0754: 1.		
HNFFF05	932432	8029	37 - 132	17781			L0471: 1 and H0271: 1.		
HNFFC75	767453	8030	3 - 158	17782			H0271: 1		
HNFEY24	677114	8031	65 - 286	17783			H0271: 1		
HNFEY06	936099	8032	198 - 332	17784			H0271: 1 and L0748: 1.		
HNFEQ28	685514	8033	157 - 396	17785			H0271: 1 and L0747: 1.		
HNFFL84	783211	8034	249 - 392	17786			H0271: 1 and L0748: 1.		
HNFCV02	861004	8035	73 - 279	17787	Pro-36 to Gly-45, Ser-64 to Thr-69.		AR051: 40, AR054: 38, AR050: 29 H0271: 1		
HNFCO90	529966	8036	31 - 168	17788	Ile-14 to Ser-30.		H0271: 1		
HNFCO85	529967	8037	2 - 151	17789			H0271: 1		
HNFCO52	518637	8038	1 - 216	17790			H0271: 1		

HNFCO41	529970	8039	2 - 145	17791			H0271: 1		
HNFCO37	507312	8040	634 - 804	17792			L0748: 4, L0749: 2 and H0271: 1		
HNFCO32	529971	8041	3 - 206	17793			H0271: 1		
HNFCO22	529973	8042	35 - 160	17794			H0271: 1		
HNFCO25	556464	8043	116 - 232	17795			AR051: 2, AR054: 1, AR050: 1		
HNFBY08	960222	8044	1 - 177	17796		Gln-16 to Lys-22.	H0271: 1 and L0457: 1.		
HNFBT45	574972	8045	154 - 375	17797		Ser-1 to Trp-6, Asn-8 to Trp-13, Ala-21 to Gly-38, Cys-46 to Trp-52.	L0748: 2 and H0271: 1.		
HNFBQ02	921029	8046	29 - 271	17798		Leu-15 to Thr-21, Lys-27 to Leu-36, Asp-39 to Thr-47.	AR051: 24, AR054: 9, AR050: 2 H0271: 1		
HNFAF78	601639	8047	567 - 313	17799			H0271: 1		
	679579	9687	202 - 2	19439		Arg-25 to Ala-31.			
	892100	9688	276 - 845	19440		Arg-1 to Gly-8, Pro-10 to Gly-15, His-41 to Gly-48, Pro-77 to Gly-91, Leu-151 to Val-158.			
HNEDU66	861030	8048	116 - 337	17800			H0179: 1 and L0776: 1.		
HNEDR54	730953	8049	229 - 405	17801		Leu-20 to Cys-26, His-52 to Ser-58.	H0179: 1 and L0777: 1.		
HNEDP86	785736	8050	170 - 394	17802			H0179: 1 and L0766: 1.		
HNEDO77	955894	8051	1 - 384	17803		Pro-8 to Ala-20, Pro-36 to Ser-43, Ser-79 to Thr-84, Gly-90 to Pro-95.	H0179: 1 and L0764: 1.	19	
HNEDJ03	967115	8052	49 - 351	17804			H0179: 1, L0762: 1, L0806: 7p15, L0666: 1 and L0439: 1.	138079, 138079, 139191, 142959, 153880, 180104, 600994, 601649	
HNEDH59	739533	8053	309 - 527	17805			L0439: 5 and H0179: 1.		

HNEDF15	946986	8054	56 - 235	17806				
	973855	9689	443 - 610	19441	His-8 to Pro-16.			
	973858	9690	107 - 265	19442				
HNEDD15	812918	8055	115 - 450	17807	Leu-58 to Lys-63, Ser-72 to Ala-84.	L0530: 2 and H0179: 1.		
HNEDS71	761415	8056	169 - 363	17808	Gly-29 to Glu-35.	H0179: 1 and L0599: 1.		
HNECP28	469521	8057	215 - 424	17809	Thr-50 to Ile-59.	H0179: 1 and L0599: 1.		
	470445	9691	141 - 1	19443	His-39 to Arg-47.			
HNECN28	558790	8058	27 - 251	17810	Ser-21 to Gly-28.	H0179: 1		
HNECI41	712607	8059	115 - 333	17811	Pro-42 to Glu-49, Arg-65 to Ser-73.	H0179: 1 and L0749: 1.		
HNECD74	470015	8060	368 - 508	17812		H0179: 1		
	484793	9692	397 - 185	19444				
HNEBY64	514762	8061	480 - 767	17813	Ser-8 to Cys-14, Lys-55 to Cys-61.	H0179: 1		
HNEBY10	968455	8062	503 - 318	17814	Leu-3 to Gln-19.	H0179: 1 and L0776: 1.		
HNEBN04	927811	8063	168 - 422	17815		H0179: 1 and L0366: 1.		
HNEBM59	950732	8064	16 - 327	17816	Thr-48 to Pro-53.	H0179: 1		
HNEBM40	868109	8065	237 - 431	17817		H0179: 1		
	529572	8066	2 - 202	17818	Pro-8 to Arg-13, Arg-28 to Gly-36, Pro-49 to Gly-54.	H0179: 1		
HNEBJ81	529571	8067	15 - 134	17819	Leu-21 to Glu-28.	AR061: 3, AR089: 2 H0179: 1		
HNEBJ67	529573	8068	25 - 126	17820	Glu-21 to Cys-30.	H0179: 1		
HNEBJ62	861074	8069	28 - 252	17821	Leu-24 to Ser-40, Leu-68 to Arg-74.	H0179: 1		
HNEBJ43	529574	8070	2 - 199	17822	Lys-27 to Glu-34.	H0179: 1		
HNEBJ31	529577	8071	35 - 202	17823		H0179: 1		
HNEBJ21	529578	8072	1 - 180	17824		H0179: 1		
HNEBJ10	968440	8073	3 - 167	17825		H0179: 1 and L0766: 1.		
HNEBJ09	529579	8074	42 - 134	17826	Leu-6 to Pro-11.	H0179: 1		
HNEBJ07	861072	8075	76 - 282	17827	Ser-10 to Pro-25, Thr-43 to Arg-51, Val-59 to Trp-69.	H0179: 1		



HNEBF27	684467	8076	2 - 148	17828	Ser-22 to Ser-27.	H0179: 1	
HNEBF20	529643	8077	2 - 79	17829	Gln-14 to Gly-23.	H0179: 1, L0662: 1, L0652: 1, L0776: 1 and L0758: 1.	
HNEAQ86	575534	8078	181 - 300	17830	Arg-6 to Cys-12.	H0179: 1	
HNEAQ37	507280	8079	1 - 237	17831		H0179: 1	
HNEAN10	968468	8080	143 - 349	17832		H0179: 1 and L0746: 1.	
HNEAK47	529646	8081	65 - 202	17833		H0179: 1	
HNEAF71	761414	8082	1 - 225	17834		H0179: 1 and L0742: 1.	
HNEAAS9	738531	8083	222 - 488	17835	Pro-74 to Asn-81.	L0747: 2 and H0179: 1.	
HMWJD93	849419	8084	11 - 262	17836	Val-57 to Glu-62.	H0341: 1 and L0748: 1.	
HMWIZ55	731809	8085	2 - 151	17837		H0341: 1	
HMWIX77	973813	8086	201 - 647	17838	Glu-8 to Glu-15, Pro-43 to His-48.	H0341: 1	
HMWIX37	708676	8087	147 - 275	17839	Gly-5 to Asp-12.	L0747: 2, H0341: 1, L0774: 1, L0657: 1 and L0754: 1.	
HMWIS12	970753	8088	850 - 996	17840	Arg-14 to Leu-21.	L0779: 2, H0341: 1, L0766: 1 and L0515: 1.	
HMWIQ64	842657	8089	505 - 744	17841		L0748: 2 and H0341: 1.	
HMWIQ44	716509	8090	198 - 55	17842	Arg-20 to Asp-37.	H0341: 1	
	716650	9693	86 - 307	19445	Lys-1 to Pro-7.		
HMWIO15	956253	8091	124 - 372	17843	Gln-23 to Thr-29, Cys-61 to Pro-73.	H0341: 1	
HMWIM05	861094	8092	178 - 366	17844	Leu-54 to Gly-63.	AR050: 75, AR054: 68, AR051: 62 H0341: 1	
HMWIL08	959512	8093	3 - 722	17845	Glu-28 to Pro-36, Gly-47 to Gly-56.	H0341: 1, L0741: 1, L0745: 1, L0747: 1 and L0759: 1.	
HMWIK10	964701	8094	184 - 558	17846	Leu-8 to Ser-16.	H0341: 1 and L0769: 1.	
HMWIG75	767332	8095	131 - 331	17847	Pro-10 to Gly-20, Gly-29 to His-35.	H0341: 1	
HMWIG26	861091	8096	2 - 301	17848		H0341: 1	
HMWIG17	663972	8097	4 - 159	17849	Asp-23 to Lys-29.	L0748: 2, H0341: 1 and L0747: 1.	
HMWIG13	657260	8098	19 - 354	17850	Ala-3 to Ser-8, Pro-10 to Gly-19.	H0341: 1	103000, 114350, 120900, 131195,

						Leu-37 to Ser-53, Ser-63 to Cys-70, Pro-82 to Gln-93, Pro-95 to Pro-101.					185000, 189980, 600184, 602575, 602575
HMWIG01	913689	8099	51 - 161	17851					H0341: 1		
HMWID28	419821	8100	3 - 305	17852					H0341: 1 and L0599: 1.		
HMWIA19	928488	8101	1 - 270	17853		Phe-16 to Ser-22, Pro-50 to Pro-56.			AR054: 137, AR050: 129, AR051: 100 H0341: 1		
HMWHZ43	861097	8102	3 - 227	17854		Ile-1 to Pro-15, Leu-43 to Gly-48, Thr-51 to Glu-62, Leu-67 to Asn-75.			H0341: 1		
HMWHW82	779903	8103	55 - 174	17855		Phe-5 to Asp-10.			H0341: 1 and L0748: 1.		
HMWHV36	708099	8104	102 - 254	17856		Ser-9 to Phe-17, His-26 to Arg-32.			H0341: 1 and L0748: 1.	3	
HMWHV12	970742	8105	184 - 420	17857		Ala-22 to Leu-30.			H0341: 1 and L0747: 1.		
HMWHP86	785510	8106	88 - 174	17858					H0341: 1 and L0748: 1.		
HMWHD94	794306	8107	1 - 108	17859					H0341: 1		
HMWHB71	565104	8108	899 - 1129	17860		His-49 to Ala-57.			H0341: 1		
HMWGW79	646280	8109	54 - 377	17861		Thr-1 to Lys-12, Thr-68 to Arg-89.			L0439: 2, H0341: 1 and L0748: 1.		
HMWGGQ48	861114	8110	185 - 424	17862		Thr-46 to Ile-55.			AR050: 43, AR054: 39, AR051: 38 H0341: 1		
HMWGI79	774806	8111	462 - 262	17863		Arg-18 to His-27.			H0341: 1		
	774828	9694	79 - 285	19446		Glu-7 to Ser-12, Lys-58 to Gly-64.					
HMWGH30	455037	8112	268 - 119	17864					H0341: 1 and L0475: 1.		
	692606	9695	116 - 310	19447		Asp-4 to Ser-14, Lys-41 to Asp-48.					
HMWGE06	935593	8113	133 - 345	17865					H0341: 1 and L0776: 1.		
HMWIFY93	506636	8114	170 - 448	17866					H0341: 1 and L0439: 1.		
HMWFN80	573608	8115	98 - 205	17867					H0341: 1		
HMWFN37	861123	8116	58 - 441	17868		Pro-61 to Ala-71, Gly-86 to Asp-92.			H0341: 1, L0070: 1 and L0759: 1.		

HMWFN32	573603	8117	138 - 308	17869	Ala-9 to Ser-14.	H0341: 1	
HMWFI18	666681	8118	197 - 346	17870		H0341: 1 and L0748: 1.	
HMWFG88	592078	8119	46 - 357	17871	Trp-7 to Leu-14.	H0341: 1 and L0748: 1.	
HMWFD86	785629	8120	122 - 412	17872	Asn-4 to His-10, Gly-18 to Leu-34, Ala-48 to Trp-54.	H0341: 1 and L0766: 1.	
HMWFD68	861124	8121	3 - 161	17873	His-1 to Asp-6.	L0749: 2 and H0341: 1.	
HMWFC64	573596	8122	120 - 323	17874	Gly-24 to His-41.	H0341: 1	
HMWET56	812712	8123	2 - 259	17875	Ser-1 to Ser-8.	H0341: 1	
HMWEQ52	728535	8124	62 - 274	17876	Ala-28 to Gly-34.	H0341: 1 and L0766: 1.	
HMWEN61	909931	8125	2 - 322	17877	Glu-6 to Gly-11, Asp-61 to Asn-68, Glu-93 to Asn-102.	AR051: 21, AR054: 15, AR050: 1 H0341: 1	
HMWEL56	733583	8126	3 - 263	17878	Gln-20 to Ala-35.	H0341: 1 and L0756: 1.	
HMWEI53	861141	8127	3 - 137	17879	Lys-1 to Leu-16.	H0341: 1 and L0740: 1.	
HMWEA91	790331	8128	66 - 539	17880	Ser-2 to Cys-15.	L0743: 2, L0777: 2, H0341: 1 and L0740: 1.	
HMWEA10	968105	8129	2 - 235	17881	His-8 to Asp-22.	L0777: 2 and H0341: 1.	
HMWDZ25	678724	8130	2 - 163	17882		H0341: 1 and L0748: 1.	
HMWDR15	660522	8131	1 - 417	17883	Asp-1 to Ile-32, Pro-34 to Pro-39, Leu-43 to Arg-48, Glu-71 to Thr-82, Pro-95 to Pro-102, Glu-114 to Lys-124.	H0341: 1 and L0754: 1.	
HMWDP06	935903	8132	18 - 110	17884		H0341: 1	
HMWDN60	974425	8133	61 - 375	17885	Pro-6 to Gly-11, Gly-54 to Arg-62.	L0756: 2 and H0341: 1.	
HMWDH55	732304	8134	98 - 310	17886	Pro-21 to His-38.	L0749: 2 and H0341: 1.	
HMWCT43	715575	8135	130 - 414	17887		H0341: 1 and L0748: 1.	
HMWCR88	955258	8136	92 - 190	17888	Phe-9 to Cys-17.	L0756: 2 and H0341: 1.	
HMWCH47	720581	8137	112 - 261	17889		H0341: 1 and L0439: 1.	
HMWCH04	615628	8138	2 - 130	17890	Ile-26 to Ser-33.	L0740: 2 and H0341: 1.	
HMWCG38	851630	8139	249 - 494	17891	Gly-1 to Lys-8, Ser-30 to Leu-43, Glu-68 to Gly-77.	H0341: 1 and L0748: 1.	

HMWBZ89	787111	8140	1 - 207	17892	Thr-18 to Lys-24.	H0341: 1 and L0748: 1.		
HMWBT59	893995	8141	3 - 287	17893	Pro-59 to Trp-72.	AR054: 37, AR050: 34, AR051: 33, AR089: 5, AR061: 4 H0341: 1		
HMWBT05	932558	8142	218 - 379	17894		L0740: 2, H0341: 1, L0761: 1, L0517: 1 and L0744: 1.		
HMWBI77	888862	8143	3 - 404	17895		AR054: 18, AR051: 15, AR050: 2 H0341: 1		
HMWBI40	712730	8144	393 - 617	17896		H0341: 1 and L0439: 1.		
HMWBH29	927321	8145	2 - 499	17897		L0749: 2, H0341: 1, L0775: 1 and L0439: 1.		
HMWBG16	859404	8146	2 - 202	17898	Pro-9 to Gly-18.	H0341: 1		
HMWBB42	714114	8147	310 - 423	17899	Gln-3 to Ser-8.	H0341: 1 and L0748: 1.		
HMWAJ04	586507	8148	27 - 395	17900	Val-1 to Leu-19, Pro-23 to Thr-29, Thr-34 to Thr-39, Pro-45 to Asn-54, His-61 to Trp-70.	AR051: 120, AR050: 118, AR054: 100 H0341: 1		
HMVDZ11	966351	8149	2 - 145	17901		S0212: 1, L0744: 1 and L0596: 1.		
HMVDV55	811616	8150	3 - 245	17902		L0439: 2, S0212: 1 and L0748: 1.		
HMVDQ02	919057	8151	209 - 355	17903		S0212: 1, L0774: 1 and L0589: 1.		
HMVDL45	717384	8152	341 - 655	17904	Ser-1 to Gln-17, Tyr-48 to Ser-64, Asp-69 to Lys-84.	L0438: 2, L0439: 2 and S0212: 1.		
HMVDJ60	877124	8153	398 - 661	17905	Glu-29 to Ile-36, Arg-47 to Ser-54, Arg-62 to Ser-67.	S0212: 1, L0756: 1 and L0731: 1.		
HMVDE10	861184	8154	247 - 462	17906		S0212: 1 and L0759: 1.		
HMVCY89	786651	8155	352 - 471	17907		L0748: 5 and S0212: 1.		
HMVCY14	657801	8156	1 - 474	17908		L0748: 3 and S0212: 1.		
HMVCG26	681174	8157	119 - 340	17909	Asp-21 to Leu-27.	S0212: 1, L0471: 1 and		

HMVB77	771974	8158	422 - 577	17910	Asn-2 to Asp-9.	L0754: 1.		
HMVB16	661692	8159	318 - 461	17911		S0212: 1 and L0439: 1.		
						S0212: 1, L0790: 1, L0749: 1 and L0777: 1.		
HMVB89	786118	8160	213 - 452	17912	Tyr-22 to Thr-27.	S0212: 1 and L0439: 1.		
HMVB083	780366	8161	494 - 736	17913	Ala-47 to His-52.	L0747: 2 and S0212: 1.		
HMVB191	790025	8162	94 - 219	17914	Phe-23 to Ala-28.	S0212: 1 and L0754: 1.		
HMVB52	726546	8163	3 - 215	17915		S0212: 1 and L0757: 1.		
HMVB44	716410	8164	264 - 386	17916		L0749: 2 and S0212: 1.		
HMVAT54	888180	8165	86 - 562	17917	Thr-13 to Trp-20, Gly-52 to Leu-59, Gln-138 to Thr-143.	S0212: 1 and L0769: 1.	16p12-p11	108730, 147781, 172471, 186580, 266600, 600760, 600760, 600761, 600761, 602066
HMVAT52	726515	8166	39 - 428	17918	Thr-10 to Cys-25, Ser-39 to Asp-47.	S0212: 1 and L0754: 1.		
HMVAP56	732985	8167	146 - 304	17919	Ser-31 to Ser-43.	L0439: 2, S0212: 1 and L0594: 1.		
HMVAF71	761400	8168	2 - 145	17920		S0212: 1 and L0439: 1.		
HMVAF52	861210	8169	1 - 378	17921	Ile-46 to Ile-51.	S0212: 1 and L0754: 1.		
HMVAC67	751600	8170	527 - 811	17922		L0748: 2 and S0212: 1.		
HMSPH53	861245	8171	2 - 307	17923	Ser-67 to Trp-72.	S0426: 1 and L0783: 1.		
HMSP04	926800	8172	2 - 250	17924		L0770: 2, L0588: 2, S0426: 1, L0803: 1 and L0602: 1.		
HMSPA30	861265	8173	365 - 189	17925		S0426: 1 and L0749: 1.		
HMSO028	861287	8174	473 - 24	17926		S0426: 1 and L0565: 1.	10q24	157640, 174900, 180250, 186770, 236730, 271245, 278000, 278000, 600095, 600512, 601107, 601130, 602082
HMSO188	861292	8175	1 - 471	17927	Glu-9 to Glu-18, Asp-24 to Leu-29, Pro-98 to Ser-112, Ala-115 to Thr-121.	S0426: 1 and L0591: 1.		

HMSOJ01	915084	8176	500 - 775	17928	Pro-33 to Thr-39.	S0426: 1, L0662: 1, L0766: 1, L0748: 1, L0779: 1 and L0759: 1.		
HMSOH03	922828	8177	212 - 397	17929		S0426: 1, L0438: 1 and L0439: 1.		
HMSNP06	934161	8178	249 - 419	17930		S0426: 1 and L0769: 1.		
HMSNG04	926845	8179	204 - 431	17931	Leu-1 to Lys-7, Cys-13 to Ser-23, Ser-25 to Gly-48, Thr-57 to Pro-65.	L0623: 1 and S0426: 1.		
HMSMY10	963431	8180	39 - 191	17932	Ala-1 to Tyr-12, Pro-44 to Leu-51.	S0426: 1, L0748: 1 and L0749: 1.		
HMSMW91	861336	8181	1 - 117	17933		S0426: 1 and L0749: 1.		
HMSMW64	861338	8182	22 - 441	17934	Val-3 to Lys-9, Leu-32 to Gln-40, Glu-70 to Gly-83.	S0426: 1 and L0589: 1.		
HMSMO59	861341	8183	148 - 495	17935	Arg-33 to Phe-41, Ser-62 to Lys-67.	L0596: 2 and S0426: 1.		
HMSMN71	927097	8184	3 - 533	17936	Lys-1 to Glu-7, Gln-18 to Asp-33, Leu-44 to Leu-50, Thr-67 to Ala-82, Ser-90 to Ser-98, Leu-130 to Gln-135.	AR061: 7, AR089: 3 L0483: 1 and S0426: 1.		
HMSMN26	861345	8185	2 - 136	17937	Gly-22 to Trp-29.	S0426: 1 and L0748: 1.		
HMSLH07	953390	8186	1 - 96	17938		S0002: 1 and L0521: 1.		
HMSKQ08	861372	8187	184 - 447	17939		S0002: 1		
HMSKH24	495770	8188	372 - 268	17940	Pro-19 to Arg-27.	S0002: 1		
	596892	9696	178 - 390	19448				
HMSJX84	783032	8189	338 - 496	17941	Asn-1 to His-10.	S0002: 1 and L0439: 1.		
HMSIW48	852496	8190	674 - 1159	17942	Pro-52 to Ser-58, Cys-82 to Ala-87, Pro-104 to Ala-114, Pro-123 to Thr-128, Gly-144 to Gly-158.	S0002: 1		
HMSJU80	775416	8191	231 - 395	17943	Lys-18 to Asp-24.	L0748: 3 and S0002: 1.		

HMSJQ40	954003	8192	2 - 331	17944			S0002: 1	
HMSJO72	465884	8193	49 - 270	17945	Leu-52 to Tyr-58.		S0002: 1 and L0748: 1.	
HMSJO43	715274	8194	1 - 63	17946			S0002: 1	
HMSJM02	920070	8195	351 - 1091	17947	Arg-33 to Thr-38.		S0002: 1 and L0597: 1.	
HMSJL53	921263	8196	71 - 433	17948	Lys-13 to Ala-20, Gln-57 to Cys-65.		AR050: 30, AR051: 29, AR054: 23 S0002: 1	
							S0002: 1	
HMSJJ22	495774	8197	581 - 408	17949			S0002: 1	
	855778	9697	353 - 613	19449	Tyr-28 to Gly-34.			
HMSJJ78	772846	8198	170 - 421	17950			S0002: 1 and L0591: 1.	
HMSJD56	868168	8199	219 - 446	17951			S0002: 1 and L0766: 1.	
HMSIZ49	973806	8200	445 - 645	17952			S0002: 1	
HMSIW04	465835	8201	585 - 749	17953			S0002: 1 and L0756: 1.	
HMSIU74	765600	8202	270 - 377	17954			S0002: 1 and L0746: 1.	
HMSIT32	699241	8203	322 - 492	17955			S0002: 1, L0517: 1 and L0756: 1.	
HMSIT28	686663	8204	29 - 217	17956	Ser-29 to Leu-34, Arg-42 to Gly-51.		S0002: 1 and L0439: 1.	
HMSIP20	669671	8205	169 - 300	17957	Gln-13 to Leu-18, Asn-29 to Arg-35.		S0002: 1 and L0599: 1.	
HMSIP02	920079	8206	402 - 223	17958			S0002: 1 and L0749: 1.	
HMSIK04	615218	8207	16 - 201	17959			S0002: 1 and L0766: 1.	
HMSIB06	935151	8208	289 - 47	17960	Trp-1 to Asp-6.		S0002: 1 and L0749: 1.	
	935272	9698	212 - 403	19450	Asn-3 to Trp-10.			
HMSHV11	967007	8209	28 - 153	17961	Tyr-1 to Asn-7.		S0002: 1 and L0605: 1.	
HMSHU68	753038	8210	513 - 271	17962			S0002: 1 and L0757: 1.	
HMSHU37	495778	8211	195 - 1	17963	Leu-40 to Gly-53, Arg-60 to Arg-65.		S0002: 1	
	855786	9699	1 - 282	19451				
	855787	9700	344 - 514	19452				
HMSHT11	967068	8212	348 - 485	17964			L0476: 1 and S0002: 1.	
HMSHO45	717808	8213	57 - 227	17965			S0002: 1 and L0745: 1.	
HMSHU09	709471	8214	359 - 736	17966			S0002: 1 and L0731: 1.	
HMSHI61	741834	8215	111 - 341	17967	Thr-43 to Asp-49.		L0777: 2, S0002: 1, L0745: 1, L0746: 1 and L0750: 1.	

HMSGH08	959461	8216	1 - 150	17968	Pro-11 to Ala-22, Thr-44 to Arg-50.	S0002: 1 and L0742: 1.		
HMSGH06	935496	8217	194 - 349	17969	Thr-13 to Arg-24, Cys-40 to Lys-47.	S0002: 1 and L0758: 1.		
HMSHE81	784966	8218	2 - 430	17970	Ala-4 to Tyr-11, Thr-26 to Pro-38, Ser-56 to Asp-64, Ser-70 to Ser-76.	AR089: 27, AR061: 8 S0002: 1 and L0754: 1.		
HMSHE17	662265	8219	446 - 694	17971	Ser-11 to Thr-18.	AR050: 29, AR051: 29, AR054: 26 L0748: 2 and S0002: 1.		
	847271	9701	418 - 606	19453	Pro-31 to Cys-40, Pro-42 to Glu-48.	S0002: 1		
HMSHD80	882700	8220	273 - 518	17972	Thr-31 to Gly-38, Leu-43 to Asn-55.	L0750: 2 and S0002: 1.		
HMSHB81	777946	8221	424 - 636	17973	Ala-21 to Lys-28.	S0002: 1		
HMSGX86	793163	8222	3 - 158	17974	Asp-1 to Asn-9, Leu-31 to Val-39.	L0748: 2 and S0002: 1.		
HMSGF56	733562	8223	174 - 308	17975	Ser-41 to Arg-49.	S0002: 1 and L0362: 1.		
HMSGF54	730823	8224	265 - 119	17976	Gln-20 to Ser-25, Glu-42 to Ile-52.	S0002: 1 and L0592: 1.		
HMSGF51	761922	8225	124 - 333	17977		L0748: 2 and S0002: 1.		
HMSGD24	677337	8226	14 - 136	17978	Lys-22 to His-38, Lys-48 to Arg-59.	S0002: 1, L0779: 1 and L0731: 1.		
HMSGC85	783608	8227	266 - 21	17979	Lys-1 to Ala-10, Gln-53 to Thr-58.			
	881955	9702	275 - 514	19454				
HMSFY63	745230	8228	184 - 315	17980	Gly-8 to Glu-18.	S0002: 1 and L0745: 1.		
HMSFX73	888326	8229	97 - 2	17981		AR054: 44, AR050: 25, AR051: 19 S0002: 1		
HMSFS08	959773	8230	290 - 421	17982	Glu-1 to Tyr-7.	S0002: 1 and L0758: 1.		
HMSFR23	919890	8231	763 - 1002	17983	Gly-58 to Ala-64.	S0002: 1		
HMSFN08	959774	8232	1 - 282	17984		S0002: 1 and L0794: 1.		
HMSFN68	753635	8233	2 - 88	17985		S0002: 1		
HMSFN13	384695	8234	22 - 222	17986	Leu-1 to His-6.	S0002: 1		



HMSSEN08	960147	8235	41 - 244	17987	Gly-2 to Leu-13.	L0748: 3, S0002: 1 and L0601: 1.		
HMSSEM34	706366	8236	97 - 333	17988	Glu-5 to Arg-11, Arg-19 to Lys-25, Ser-61 to Gly-69.	S0002: 1 and L0748: 1.		
HMSSEL64	842040	8237	73 - 198	17989	Pro-18 to Thr-23, Arg-29 to Asn-34.	S0002: 1 and L0759: 1.		
HMSSEG67	751865	8238	163 - 2	17990	Arg-5 to Ser-10.	S0002: 1		
HMSDQ15	660654	8239	2 - 166	17991	Glu-31 to Gln-36.	S0002: 1 and L0748: 1.		
HMSDL70	909997	8240	2 - 307	17992	Pro-12 to Glu-21, Gln-29 to Ser-34.	S0002: 1 and L0741: 1.		
HMSDK10	968435	8241	3 - 164	17993		S0002: 1 and L0756: 1.		
HMSDI34	559991	8242	2 - 154	17994	His-1 to Ser-7.	S0002: 1		
HMSDG12	574950	8243	2 - 238	17995		S0002: 1 and L0741: 1.	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477
HMSDG04	927804	8244	94 - 270	17996		S0002: 1 and L0527: 1.		
HMSDB08	960260	8245	175 - 318	17997	Tyr-15 to Asn-20.	S0002: 1 and L0805: 1.		
HMSDA81	778469	8246	1 - 183	17998	Thr-12 to Ala-17.	S0002: 1 and L0752: 1.		
HMSCY01	921768	8247	1 - 240	17999		S0002: 1 and L0748: 1.		
HMSCW45	723483	8248	3 - 242	18000		L0758: 2, S0002: 1 and L0748: 1.		
HMSCT69	855855	8249	258 - 476	18001		S0002: 1		
HMSCP73	764703	8250	183 - 368	18002		S0002: 1 and L0766: 1.		
HMSCO63	855863	8251	238 - 444	18003	Ser-25 to Pro-31, Ser-45 to Gln-54.	L0748: 2, S0002: 1 and L0762: 1.		
HMSCD07	954243	8252	3 - 161	18004		S0002: 1 and L0592: 1.		
HMSBZ67	973737	8253	1 - 234	18005	Asn-1 to Arg-7.	S0002: 1		
HMSBZ13	855866	8254	2 - 142	18006		S0002: 1 and L0599: 1.		
HMSBY67	752145	8255	213 - 323	18007	Gln-24 to Gly-36.	S0002: 1 and L0777: 1.		
HMSBW54	880721	8256	89 - 289	18008	Leu-1 to Arg-7, Lys-34 to Lys-39.	S0002: 1 and L0766: 1.		

HMSBU24	678709	8257	194 - 475	18009	Asp-4 to Gly-14, Gln-16 to Cys-22, Arg-45 to Trp-56, Val-68 to Val-78.	L0603: 2 and S0002: 1.		
HMSBO95	796724	8258	249 - 377	18010		S0002: 1 and L0749: 1.		
HMSBM92	792970	8259	3 - 140	18011	His-18 to Glu-25.	S0002: 1		
HMSBI82	780229	8260	3 - 188	18012	Tyr-39 to Trp-45.	S0002: 1		
HMSBI56	733772	8261	3 - 68	18013	Asn-11 to Glu-17.	S0002: 1		
HMSBH85	784576	8262	211 - 423	18014	Pro-50 to Cys-55.	S0002: 1 and L0600: 1.		
HMSBH08	958802	8263	981 - 658	18015		S0002: 1		
	958939	9703	451 - 122	19455				
HMSBH07	954457	8264	59 - 382	18016	Gly-30 to Lys-41, Asn-72 to Gly-80.	S0002: 1 and L0655: 1.		
HMSBF92	582654	8265	489 - 253	18017		S0002: 1		
	791382	9704	278 - 475	19456				
HMSBC31	960021	8266	207 - 434	18018	Pro-1 to Lys-14.	S0002: 1 and L0748: 1.		
HMSBA43	715699	8267	43 - 261	18019		S0002: 1, L0766: 1 and L0748: 1.		
HMSAV84	781872	8268	45 - 233	18020		S0002: 1 and L0748: 1.		
HMSAV65	747792	8269	405 - 190	18021		S0002: 1		
HMSAT76	842065	8270	2 - 172	18022	Arg-3 to Ala-15, Ala-26 to Trp-34, Gly-37 to Ser-43.	S0002: 1, L0439: 1 and L0779: 1.		
HMSAQ95	796728	8271	18 - 152	18023	Phe-4 to Ser-11.	S0002: 1 and L0731: 1.		
HMSAQ58	738495	8272	2 - 157	18024		L0740: 2 and S0002: 1.		
HMSAP36	518062	8273	95 - 223	18025	Glu-20 to Glu-26.	S0002: 1		
HMSAO42	714316	8274	74 - 187	18026		S0002: 1 and L0749: 1.		
HMSAH80	781640	8275	71 - 310	18027	Arg-8 to Arg-14, Arg-26 to Thr-33, Ser-50 to Trp-55.	S0002: 1 and L0748: 1.		
HMQDV06	936015	8276	11 - 415	18028	Thr-18 to Gln-26, Pro-44 to Gln-49, Thr-55 to Lys-60, Arg-100 to Asn-107, Pro-115 to Glu-122.	H0250: 1, L0761: 1 and L0800: 1.		
HMQDQ42	457221	8277	1 - 294	18029	Leu-12 to Asp-18,	H0250: 1 and L0748: 1.		

HMQL40	711421	8278	121 - 255	18030	Cys-62 to Ser-72.	H0250: 1 and L0749: 1.	
HMQCZ36	708066	8279	162 - 386	18031	Ala-1 to Ser-7, Pro-29 to Gly-39.	L0748: 2 and H0250: 1.	
HMQCZ18	574068	8280	1 - 297	18032		H0250: 1 and L0743: 1.	
HMQCX42	712966	8281	57 - 266	18033		L0748: 2 and H0250: 1.	
HMQCV29	974683	8282	2 - 499	18034	Pro-7 to Gln-20.	H0250: 1 and L0766: 1.	
HMQCN17	385544	8283	124 - 288	18035		H0250: 1, L0779: 1 and L0591: 1.	
HMQCM46	719201	8284	2 - 136	18036	Lys-6 to Lys-15.	H0250: 1	
HMQCM41	711586	8285	2 - 115	18037	Ser-14 to Tyr-20.	H0250: 1	
HMQCM05	932363	8286	40 - 171	18038		H0250: 1	
HMQCH69	754188	8287	1 - 201	18039		H0250: 1 and L0756: 1.	
HMQCH54	728851	8288	195 - 278	18040		L0747: 2 and H0250: 1.	
HMQCB03	963370	8289	1 - 255	18041		L0498: 2 and H0250: 1.	
HMQBN40	779856	8290	204 - 473	18042		H0250: 1 and L0777: 1.	
HMPTA56	921233	8291	3 - 290	18043	Phe-1 to Gly-7, Lys-9 to Pro-23, Arg-65 to Ala-70, Leu-76 to Gln-82, Leu-90 to Pro-95.	H0109: 1	
HMPTA28	685099	8292	171 - 284	18044	Pro-5 to Met-10.	H0109: 1	
HMPSC38	709222	8293	97 - 330	18045		H0109: 1 and L0748: 1.	
HMPBB84	781863	8294	163 - 345	18046	Glu-51 to Ser-57.	H0061: 1	
HMOAD90	600400	8295	2 - 184	18047	Asp-11 to Glu-16, Asp-30 to Asn-39.	H0191: 1	
HMOAD60	855919	8296	2 - 241	18048		AR054: 2, AR051: 2, AR050: 1 H0191: 1	
HMMCL96	796276	8297	316 - 480	18049		L0748: 1 and H0444: 1.	
HMMCI01	913715	8298	187 - 342	18050	Val-22 to Gly-29.	L0785: 1 and H0444: 1.	
HMMCH69	754902	8299	2 - 112	18051		H0444: 1 and L0605: 1.	
HMMCH09	625366	8300	287 - 595	18052	Gln-40 to Gly-46, Ser-72 to His-78, Pro-93 to Trp-99.	L0748: 1 and H0444: 1.	

HMMCD83	875272	8301	315 - 440	18053	Thr-8 to Lys-20.	L0599: 2, L0369: 1 and H0444: 1.	
HMMCD23	675720	8302	1 - 276	18054		L0754: 1 and H0444: 1.	
HMMCA11	966677	8303	28 - 336	18055	Thr-10 to Gly-17, Ser-59 to Ala-66.	L0749: 1 and H0444: 1.	
HMMCA08	958980	8304	81 - 260	18056	Thr-31 to Asp-44.	L0532: 1 and H0444: 1.	
HMMBZ18	666192	8305	247 - 441	18057		L0748: 7, L0766: 3, L0749: 2, L0717: 1, L0527: 1, L0779: 1 and H0444: 1.	
HMMBZ05	566870	8306	75 - 401	18058	Pro-14 to Ser-20, Gln-80 to Trp-87.	AR051: 53, AR050: 53, AR054: 36, L0759: 1 and H0444: 1.	
	882446	9705	314 - 682	19457	Ser-3 to Thr-8.		
HMMBX01	916067	8307	100 - 270	18059		L0758: 1 and H0444: 1.	
HMMBV08	958987	8308	381 - 223	18060		L0769: 1 and H0444: 1.	
HMMBU13	597147	8309	222 - 344	18061		L0600: 2 and H0444: 1.	
HMMBT64	746399	8310	257 - 421	18062		L0748: 1 and H0444: 1.	
HMMBT30	841959	8311	305 - 583	18063	Ser-72 to Asn-77.	L0766: 1 and H0444: 1.	
HMMBT03	855930	8312	99 - 332	18064		H0444: 1	
HMMBQ08	958988	8313	117 - 281	18065	Pro-8 to Lys-15.	L0740: 1 and H0444: 1.	
HMMBO49	722753	8314	22 - 279	18066		L0754: 1 and H0444: 1.	
HMMBO28	686318	8315	1 - 147	18067		L0748: 1 and H0444: 1.	
HMMBN76	769890	8316	327 - 494	18068	Lys-1 to Ile-7.	L0748: 1, L0749: 1 and H0444: 1.	
HMMBN71	973436	8317	95 - 331	18069	Asn-72 to Leu-79.	H0444: 1	
HMMBN54	729352	8318	135 - 398	18070		L0748: 1 and H0444: 1.	
HMMBM83	781010	8319	19 - 192	18071		L0748: 1 and H0444: 1.	
HMMBL55	731523	8320	221 - 373	18072	Pro-8 to Lys-28, Ile-41 to Cys-48.	L0754: 1 and H0444: 1.	
HMMBH64	746402	8321	2 - 193	18073	Ser-23 to Glu-29, Pro-54 to Asp-63.	L0439: 1 and H0444: 1.	
HMMBF86	812597	8322	2 - 163	18074	Arg-20 to Trp-26, Ser-30 to Glu-43.	L0748: 1 and H0444: 1.	12
HMMBF72	761389	8323	165 - 317	18075	Lys-16 to Lys-51.	H0444: 1 and L0599: 1.	
HMMBF41	711731	8324	366 - 506	18076		H0444: 1 and L0581: 1.	

HMMAV44	716396	8325	183 - 338	18077	Lys-12 to Arg-18.	L0748: 2 and H0444: 1.	
HMMAT23	973437	8326	3 - 305	18078	Arg-1 to Gly-7.	H0444: 1	
HMMAT08	959005	8327	125 - 343	18079	Gln-19 to Leu-25.	H0444: 1 and L0599: 1.	
HMMAS73	764280	8328	376 - 597	18080		L0756: 1 and H0444: 1.	
HMMAR20	669523	8329	373 - 549	18081	Lys-22 to Gly-27.	L0748: 2 and H0444: 1.	
HMMAQ70	757070	8330	324 - 413	18082		L0748: 1 and H0444: 1.	
HMMAO06	935087	8331	453 - 656	18083	Pro-28 to Asn-33, Phe-46 to Gly-52, Thr-61 to Asn-67.	L0638: 1 and H0444: 1.	
HMMAL71	760206	8332	159 - 425	18084	Pro-79 to Ile-84.	H0444: 1	
HMMAL69	754908	8333	213 - 365	18085	Pro-12 to Gln-19.	L0749: 1, H0444: 1 and L0605: 1.	
HMMAL59	738982	8334	246 - 404	18086	Arg-1 to Glu-7.	H0444: 1	
HMMAL54	729351	8335	241 - 357	18087	Glu-2 to Gly-7.	H0444: 1	
HMMAL44	716407	8336	144 - 320	18088	Thr-9 to Trp-19.	L0662: 1, L0749: 1 and H0444: 1.	
HMMAL42	713542	8337	34 - 183	18089	Lys-24 to Val-30, Thr-44 to Arg-49.	H0444: 1	
HMMAL35	707278	8338	97 - 303	18090	Lys-1 to Gln-6, Ser-27 to Lys-43, Glu-50 to Lys-62.	L0529: 1 and H0444: 1.	
HMMAL30	693545	8339	6 - 80	18091		H0444: 1	
HMMAL18	665512	8340	174 - 356	18092		H0444: 1	
HMMAL16	661699	8341	296 - 412	18093	Ser-1 to Lys-32.	H0444: 1	
HMMAK83	781016	8342	193 - 345	18094	Pro-20 to Phe-25.	L0748: 3, L0749: 1 and H0444: 1.	
HMMAH61	741662	8343	142 - 321	18095		L0748: 1 and H0444: 1.	
HMMAF92	973971	8344	265 - 459	18096		H0444: 1	
HMMAF34	842015	8345	297 - 479	18097		L0762: 1 and H0444: 1.	
HMMAE45	720838	8346	55 - 351	18098		L0748: 4, L0367: 1, L0747: 1 and H0444: 1.	
HMMAE16	856007	8347	117 - 344	18099	Ser-23 to Cys-31.	L0754: 1 and H0444: 1.	
HMMAB96	826488	8348	285 - 563	18100		H0444: 1	
HMCIW93	897377	8349	1 - 306	18101	Arg-1 to Gly-16, Thr-30 to Ser-42.	S0344: 1	

HMCHZ77	771795	8350	2 - 346	18102		AR061: 8, AR089: 5 S0344: 1 and L0748: 1.	
HMCHS34	703691	8351	127 - 273	18103	Arg-18 to Gly-23.	L0748: 3 and S0344: 1.	
HMCHK58	752431	8352	580 - 419	18104		S0344: 1 and L0601: 1.	
HMCGX46	886903	8353	1 - 426	18105	Glu-25 to Asn-32, His-49 to Asn-57.	AR051: 24, AR050: 18, AR054: 10 S0344: 1	
HMCGV66	787512	8354	1 - 216	18106	Tyr-16 to Trp-25, Val-49 to Pro-54, Gln-62 to Leu-68.	S0344: 1 and L0747: 1.	
HMCGF39	856222	8355	1 - 321	18107		L0455: 1, S0344: 1 and L0439: 1.	
HMCFR57	734404	8356	161 - 358	18108		S0344: 1, L0748: 1 and L0756: 1.	
HMCFM86	846578	8357	13 - 171	18109	Ser-30 to Gly-36.	S0344: 1 and L0748: 1.	
HMCFM04	927002	8358	182 - 343	18110	Lys-16 to Trp-22, Gly-39 to Ala-50.	S0344: 1 and L0517: 1.	
HMCND93	791555	8359	185 - 322	18111	Arg-1 to Val-9.	S0142: 1, L0439: 1 and L0746: 1.	
HMCDC70	757192	8360	98 - 373	18112	Thr-10 to Gly-17, Lys-21 to Pro-30, Pro-45 to Ser-55.	S0142: 1 and L0600: 1.	
HMCAR04	925591	8361	225 - 563	18113	His-1 to Ile-14.	S0142: 1 and L0748: 1.	
HMALZ77	856266	8362	2 - 343	18114	Asn-12 to Gln-17, Gly-25 to Ala-34, Lys-72 to Ser-78.	AR089: 1, AR061: 0 S0278: 1 and L0591: 1.	
HMAK06	933960	8363	61 - 222	18115	Gly-31 to Leu-36.	S0278: 1 and L0456: 1.	
HMAJZ39	751523	8364	2 - 280	18116	Glu-13 to Gln-19.	S0278: 1, L0438: 1 and L0604: 1.	
HMAJL09	950168	8365	2 - 493	18117	Tyr-30 to Ser-35, Arg-94 to Gly-100.	AR089: 0, AR061: 0 S0278: 1	
HMAIU90	886821	8366	1 - 453	18118	Arg-41 to Ala-58, Ala-62 to Ser-71, Leu-88 to Gly-96.	AR051: 19, AR050: 17, AR054: 2 S0278: 1	
HMAIQ20	669436	8367	94 - 303	18119	Asn-16 to Asp-21.	L0745: 2 and S0278: 1.	
HMAIH15	956705	8368	534 - 268	18120	Ala-2 to Trp-7.	AR089: 1, AR061: 0	

HMAIA55	899404	8369	89 - 877	18121	Pro-35 to Asp-46. Pro-28 to Cys-34, Asn-153 to Gly-161, Ala-227 to Asn-233.	S0278: 1 AR051: 37, AR061: 9, AR054: 6, AR089: 4, AR050: 1 S0278: 1		
HMAHP37	566344	8370	177 - 440	18122	Gln-17 to Gly-27.	S0278: 1		
HMAGT95	795686	8371	22 - 330	18123	Cys-44 to Ser-52, Arg-96 to Leu-103.	S0278: 1 and L0742: 1.		
HMAGS90	788683	8372	58 - 258	18124	Phe-4 to Leu-11, Pro-14 to Leu-20.	L0777: 2 and S0278: 1.		
HMAGI39	910152	8373	118 - 321	18125		L0776: 2 and S0278: 1.	I9q13.4	134790, 191044, 600040, 600138
HMAFF71	760304	8374	2 - 550	18126		L0731: 2, S0144: 1 and L0750: 1.		
HMAFC96	796348	8375	32 - 448	18127	Arg-1 to Ser-13, Gly-24 to Pro-33, Ser-44 to Glu-50.	S0144: 1 and L0748: 1.	I1p15.5	125852, 126452, 126452, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 600856, 601680, 602631, 602631
HMAEK93	791549	8376	355 - 582	18128	Ser-24 to Lys-39, Trp-52 to Pro-58.	S0144: 1 and L0731: 1.		
HMA DF74	944465	8377	144 - 1145	18129	Gly-5 to Glu-16, Gly-28 to Ser-34, Pro-186 to Pro-196, Ser-213 to Asn-219, Ser-249 to Ile-267.	AR089: 12, AR061: 8 S0144: 1		
HMACZ84	975349	8378	147 - 353	18130	His-7 to Phe-13.	S0144: 1		

HMACV54	922354	8379	421 - 170	18131	Thr-50 to Phe-62, Pro-69 to His-75.	AR089: 21, AR061: 16 S0144: 1 and L0767: 1.		
HMABT55	753560	8380	27 - 275	18132		S0144: 1 and L0756: 1.		
HMABD66	388074	8381	138 - 383	18133		AR061: 0, AR089: 0 S0144: 1		
HLYHN64	970747	8382	26 - 397	18134		L0748: 3 and H0445: 1.		
HLYHN40	710825	8383	125 - 256	18135	Gly-14 to His-20.	L0745: 1 and H0445: 1.		
HLYHL55	731447	8384	213 - 443	18136		L0754: 1 and H0445: 1.		
HLYHK64	746310	8385	87 - 215	18137	Asn-25 to Ile-30.	L0744: 1, L0748: 1 and H0445: 1.		
HLYHK61	932994	8386	1 - 549	18138	Lys-61 to Ser-68, Ser-91 to Lys-96.	L0747: 2, L0748: 1, L0750: 1 and H0445: 1.		
HLYHK34	703776	8387	298 - 519	18139	Lys-37 to Lys-71.	AR089: 1, AR061: 1 L0766: 1, L0754: 1 and H0445: 1.		
HLYHJ37	708625	8388	257 - 421	18140	Pro-16 to Ser-22, Ala-32 to Lys-39.	L0439: 1 and H0445: 1.		
HLYHJ02	919201	8389	232 - 444	18141	Ile-17 to Ser-23, Gln-39 to Ser-57.	L0758: 1 and H0445: 1.		
HLYHI05	953925	8390	424 - 20	18142	Asn-98 to Tyr-105, Lys-130 to His-135.	L0766: 1 and H0445: 1.		
HLYHF62	743058	8391	89 - 277	18143	Asn-13 to Glu-18.	H0445: 1 and L0361: 1.		
HLYHE85	784140	8392	294 - 506	18144	Ser-18 to Cys-33, Asn-36 to His-42.	L0766: 1 and H0445: 1.		
HLYHA48	721372	8393	170 - 466	18145	Asn-1 to Pro-8, Leu-58 to Gln-64.	L0766: 5 and H0445: 1.		
HLYHA04	614848	8394	83 - 229	18146	Ser-17 to Gly-22.	L0748: 2 and H0445: 1.		
HLYGZ71	760115	8395	275 - 613	18147	Gly-8 to Leu-13, Pro-46 to Val-51, Leu-56 to Arg-64, Val-100 to Gln-110.	L0761: 1 and H0445: 1.		
HLYGZ11	966503	8396	194 - 430	18148		L0598: 1, L0648: 1 and H0445: 1.		
HLYGY60	740081	8397	119 - 397	18149		L0748: 2, L0766: 1, L0439: 1, L0750: 1, L0755: 1, H0445: 1 and L0601: 1.		



HLYGW95	795682	8398	110 - 373	18150	Val-15 to Pro-20, Pro-41 to Leu-46, Leu-50 to Leu-57, Gly-63 to His-77, Ser-81 to Gly-87.	L0749: 1, L0777: 1 and H0445: 1.		
HLYGR56	733123	8399	481 - 636	18151		L0731: 1 and H0445: 1.		
HLYGQ29	689972	8400	91 - 213	18152	Lys-14 to Thr-25.	L0754: 2 and H0445: 1.		
HLYGQ11	966539	8401	45 - 194	18153		L0766: 1 and H0445: 1.		
HLYGM76	769835	8402	235 - 450	18154	Thr-13 to Glu-18, Lys-50 to Ile-55.	H0445: 1 and L0362: 1.		
HLYGM08	958820	8403	110 - 3	18155	Lys-6 to Tyr-36.	L0754: 1 and H0445: 1.		
HLYGJ76	685240	8404	388 - 564	18156		H0445: 1 and L0605: 1.		
HLYGH51	871634	8405	162 - 464	18157	Ser-68 to Ala-73.	AR089: 1, AR061: 0 L0748: 1 and H0445: 1.		
HLYGD69	754841	8406	108 - 302	18158	Ala-23 to Gly-28.	L0753: 1 and H0445: 1.		
HLYGB38	709187	8407	19 - 279	18159	Pro-65 to Gln-71.	L0748: 2 and H0445: 1.		
HLYFW38	709185	8408	114 - 392	18160	Leu-7 to Ser-12, Ile-21 to Ala-29, Ser-35 to Ser-41, Pro-43 to Tyr-48.	L0748: 2, L0749: 1 and H0445: 1.		
HLYFU24	856392	8409	362 - 532	18161		H0445: 1 and L0599: 1.		
HLYFR17	859567	8410	271 - 582	18162	Pro-59 to Pro-65.	L0747: 1 and H0445: 1.		
HLYFP56	871637	8411	173 - 391	18163	Ile-47 to Gln-73.	L0766: 3 and H0445: 1.		
HLYFO29	690381	8412	308 - 496	18164	Glu-42 to Ser-52.	H0445: 1 and L0596: 1.		
HLYFE11	966519	8413	103 - 276	18165	Gln-27 to Trp-42.	L0749: 1 and H0445: 1.		
HLYFD51	725116	8414	3 - 548	18166	Thr-4 to Met-17, Ser-21 to Tyr-27, Lys-40 to Asp-56.	L0157: 1, L0766: 1, L0439: 1 and H0445: 1.		
HLYFC54	729299	8415	91 - 249	18167		H0445: 1 and L0600: 1.		
HLYEV46	889678	8416	213 - 443	18168		L0788: 1 and H0445: 1.		
	889804	9706	497 - 757	19458				
HLYEV42	856395	8417	107 - 448	18169	Ser-31 to Asn-37, Gln-46 to Cys-53.	L0748: 1 and H0445: 1.		
HLYET54	729406	8418	281 - 556	18170		L0748: 1 and H0445: 1.		
HLYET48	721501	8419	310 - 429	18171		L0439: 1 and H0445: 1.		

HLJET17	662764	8420	1 - 141	18172			L0748: 1 and H0445: 1.		
HLYES45	717640	8421	296 - 643	18173			L0439: 1 and H0445: 1.		
HLJEP59	739151	8422	228 - 536	18174			L0748: 2 and H0445: 1.		
HLJEO83	781038	8423	214 - 477	18175		Ser-79 to Ile-88.	L0596: 2 and H0445: 1.		
HLJEO37	708623	8424	399 - 551	18176		Thr-12 to Val-19.	L0748: 1 and H0445: 1.		
HLJEL71	760220	8425	296 - 550	18177		Arg-28 to Gln-36.	L0777: 1 and H0445: 1.		
HLJED44	716430	8426	3 - 353	18178		Lys-1 to Trp-7, Pro-31 to Ser-37, Pro-46 to Asn-61, Gly-81 to Thr-90.	L0753: 1 and H0445: 1.		
HLJEC21	670678	8427	2 - 163	18179		Cys-44 to Cys-50.	L0756: 1 and H0445: 1.		
HLJEB11	966748	8428	85 - 351	18180			L0748: 4 and H0445: 1.		
HLJEA92	561537	8429	5 - 115	18181		Asp-13 to Asp-18.	AR054: 16, AR050: 8, AR051: 1 H0445: 1		
HLJEA86	488801	8430	135 - 326	18182		Ser-9 to Ser-14, Phe-40 to Asn-45.	L0748: 1 and H0445: 1.		
HLJEA70	943886	8431	1 - 423	18183		Val-87 to Gln-93, Tyr-123 to Gln-130.	AR054: 15, AR050: 2, AR051: 1 H0445: 1		
HLJEA49	722787	8432	33 - 161	18184		Gln-21 to Ser-27.	H0445: 1 and L0599: 1.		
HLJEDY72	761359	8433	275 - 478	18185			H0445: 1 and L0599: 1.		
HLJEDX40	856401	8434	94 - 450	18186		Ser-56 to Asn-65, Lys-84 to Arg-91, Lys-114 to Ser-119.	L0740: 1 and H0445: 1.		
HLJEDV57	800224	8435	72 - 152	18187		Leu-1 to Arg-6.	L0745: 1 and H0445: 1.		
HLJEDU14	658035	8436	281 - 445	18188		Ser-47 to Gly-52.	L0748: 1 and H0445: 1.		
HLJEDT27	856405	8437	262 - 453	18189		Leu-58 to Arg-64.	L0758: 2 and H0445: 1.		
HLJEDT09	972424	8438	160 - 411	18190		Asp-58 to Ser-65.	H0445: 1		
HLJEDQ75	767176	8439	203 - 502	18191		Gln-15 to Leu-36, Lys-78 to Thr-85.	L0749: 1 and H0445: 1.		
HLJEDO45	717079	8440	3 - 224	18192			L0518: 5, L0748: 1 and H0445: 1.		
HLJEDK95	973370	8441	140 - 376	18193		His-10 to Glu-16, Ser-23 to Cys-30.	H0445: 1		
HLJEDI03	923826	8442	197 - 388	18194		Pro-9 to Val-22,	L0041: 1 and H0445: 1.		

HLYDG74	939025	8443	134 - 481	18195	Pro-31 to Gly-43.	L0438: 1, L0439: 1 and H0445: 1.		
HLYDG42	713579	8444	213 - 368	18196		L0748: 1 and H0445: 1.		
HLYDF07	952940	8445	120 - 290	18197		L0761: 1 and H0445: 1.		
HLYDD60	740212	8446	39 - 125	18198	Asn-15 to Asp-29.	L0766: 1 and H0445: 1.		
HLYDB08	959076	8447	20 - 160	18199	His-1 to Gly-9, Thr-13 to Trp-18, Asn-21 to Glu-26.	L0749: 1 and H0445: 1.		
HLYCX70	757087	8448	257 - 604	18200	Ala-8 to Ser-14, Pro-64 to Arg-69.	L0748: 3 and H0445: 1.		
HLYCX34	703910	8449	39 - 227	18201		L0748: 1 and H0445: 1.		
HLYCX18	943714	8450	2 - 412	18202	Arg-7 to Arg-16.	AR061: 113, AR089: 106 L0777: 1 and H0445: 1.		
HLYCX02	919563	8451	1 - 138	18203	Ser-29 to Gly-40.	L0731: 1 and H0445: 1.		
HLYCU59	679219	8452	229 - 405	18204	Thr-49 to Cys-58.	L0756: 2 and H0445: 1.	6p21	180297, 248611, 251000, 263200, 600211, 600701, 601690
HLYCO43	825509	8453	257 - 466	18205	Arg-64 to Arg-69.	H0445: 1		
HLYCP63	856424	8454	14 - 184	18206	Gly-15 to Thr-21.	L0523: 1 and H0445: 1.		
HLYCO03	923844	8455	157 - 387	18207	Glu-37 to Tyr-42.	L0777: 2, L0731: 2 and H0445: 1.		
HLYCM14	657589	8456	104 - 322	18208	Lys-7 to Arg-12, Phe-35 to Gly-54.	L0748: 1 and H0445: 1.		
HLYCL69	914887	8457	372 - 509	18209		L0748: 1 and H0445: 1.	4q11-q13	103600, 103600, 103600, 104150, 104150, 104500, 125490, 170650
HLYCF51	725067	8458	172 - 396	18210	Glu-16 to Ser-34.	L0769: 2, L0666: 1, L0748: 1, L0747: 1, L0749: 1 and H0445: 1.		
HLYCF37	949401	8459	1018 - 1341	18211	His-1 to Gly-23, Arg-43 to Leu-50, Pro-52 to Glu-59, Leu-77 to Lys-108.	AR089: 31, AR061: 5 H0445: 1		

HLGCC19	668745	8460	229 - 369	18212	Arg-23 to Ser-31, Thr-41 to His-46.	L0748: 1 and H0445: 1.	
HLVCB86	785544	8461	106 - 204	18213		L0754: 1 and H0445: 1.	
HLVCB11	967162	8462	76 - 258	18214		L0731: 3, L0779: 1, H0445: 1 and L0362: 1.	
HLVBX91	790234	8463	587 - 778	18215		L0766: 3 and H0445: 1.	
HLVBV44	485853	8464	80 - 193	18216	Glu-22 to Cys-31.	H0445: 1	
	516686	9707	293 - 448	19459	Ser-1 to Gln-9, Arg-20 to Tyr-34.		
HLVBN17	463988	8465	150 - 317	18217		L0766: 3 and H0445: 1.	
HLVBM44	715879	8466	14 - 328	18218		L0742: 1 and H0445: 1.	
HLVBJ17	664101	8467	221 - 415	18219		H0445: 1 and L0599: 1.	
HLVBH84	856444	8468	165 - 443	18220	Pro-67 to Ser-72, His-75 to Gln-86.	AR054: 14, AR051: 13, AR050: 0 H0445: 1	
HLVBH68	586582	8469	220 - 486	18221	Thr-40 to Ser-57.	AR050: 18, AR054: 11, AR051: 5 H0445: 1	
HLVBG85	783508	8470	1 - 246	18222	Asn-36 to Arg-46.	L0748: 1 and H0445: 1.	
HLVBA50	880734	8471	2 - 232	18223	Thr-23 to Cys-39.	L0766: 2 and H0445: 1.	
HLVBA06	935611	8472	295 - 441	18224		L0521: 1, L0766: 1 and H0445: 1.	
HLVAX75	767225	8473	172 - 294	18225	Arg-25 to Leu-32.	H0445: 1	
HLVAX32	699337	8474	129 - 200	18226	Thr-6 to Asp-19.	L0663: 1, H0445: 1 and L0599: 1.	
HLVAU15	782335	8475	163 - 414	18227	Thr-25 to Ser-30.	L0748: 1, L0752: 1, L0758: 1 and H0445: 1.	
HLVAS35	856469	8476	96 - 293	18228		H0445: 1 and L0592: 1.	
HLVAR25	678179	8477	205 - 378	18229	Thr-52 to Lys-58.	L0777: 1 and H0445: 1.	
HLVAQ92	792770	8478	169 - 303	18230	Asp-33 to Gln-40.	L0740: 1 and H0445: 1.	
HLVAQ70	757235	8479	220 - 483	18231		L0748: 4 and H0445: 1.	
HLVAQ69	754229	8480	1 - 267	18232	Thr-50 to Ile-85.	L0754: 1 and H0445: 1.	
HLVAN68	815950	8481	182 - 337	18233		H0445: 1	
HLVAN21	854034	8482	126 - 302	18234	Lys-6 to Ser-17.	H0445: 1	
HLVAN10	964834	8483	369 - 521	18235		L0761: 1, L0517: 1, H0445: 1	

HLVAL58	736097	8484	433 - 606	18236			1 and L0599: 1.		
HLVAL22	856473	8485	214 - 456	18237	Ser-1 to Asp-6, Gly-60 to Gly-66.		L0439: 2 and H0445: 1. L0369: 1 and H0445: 1.		
HLVAL11	967173	8486	100 - 294	18238	Gln-35 to Phe-47, Glu-55 to Gln-64.		L0766: 1, L0606: 1 and H0445: 1.		
HLYAK36	708028	8487	192 - 356	18239			L0749: 1, H0445: 1 and L0599: 1.		
HLYAK34	421604	8488	36 - 164	18240			L0745: 7, L0746: 3 and H0445: 1.		
HLYAJ49	723039	8489	150 - 383	18241			L0483: 1, L0750: 1 and H0445: 1.		
HLYAG59	888232	8490	157 - 441	18242	Ile-6 to Met-21.		AR051: 9, AR050: 3 H0445: 1		
HLTHS37	708613	8491	205 - 432	18243	Asp-1 to Asn-15, Pro-31 to Gly-41.		L0748: 2 and H0591: 1.		
HLTHS02	856560	8492	23 - 217	18244	Phe-42 to Thr-49, Ile-51 to Ser-56.		H0591: 1 and L0748: 1.		
HLTHC37	708620	8493	172 - 453	18245	Ser-21 to Glu-27, Asp-38 to Asn-45.		H0591: 1, L0659: 1 and L0439: 1.		
HLTGT83	780903	8494	23 - 199	18246			H0591: 1 and L0439: 1.		
HLTGT36	708027	8495	516 - 740	18247			L0796: 2, L0747: 2, H0591: 1 and L0791: 1.		
HLTGS17	662409	8496	350 - 502	18248	Pro-5 to Asn-12.		H0591: 1 and L0748: 1.		
HLTGR28	693990	8497	1 - 231	18249			H0591: 1 and L0748: 1.		
HLTGP47	719975	8498	182 - 379	18250	Gln-36 to Arg-52.		H0591: 1 and L0604: 1.		
HLTGO89	786674	8499	1 - 129	18251	Thr-24 to Ala-30.		H0591: 1 and L0439: 1.		
HLTGN92	791185	8500	153 - 242	18252			L0748: 3 and H0591: 1.		
HLTGA40	710728	8501	153 - 413	18253			L0758: 2, H0591: 1 and L0439: 1.		
HLTEZ30	960911	8502	209 - 331	18254	Leu-18 to Asp-33.		L0748: 2 and H0090: 1.		
HLTEZ19	671610	8503	2 - 172	18255	Ser-2 to Arg-7, Leu-48 to Trp-54.		L0748: 2, L0749: 2, H0090: 1, L0756: 1 and L0758: 1.		
HLTEX27	927578	8504	163 - 327	18256	Pro-27 to Asp-33.		H0090: 1 and L0748: 1.		
HLTEV66	772965	8505	1 - 192	18257	Lys-19 to Asn-38.		H0090: 1 and L0731: 1.		

HLTEP45	723375	8506	289 - 426	18258	Arg-1 to Lys-12.	H0090: 1 and L0362: 1.	
HLTEM25	678685	8507	2 - 190	18259	Cys-3 to Lys-11, Ile-30 to Phe-36.	H0090: 1 and L0766: 1.	
HLTEG51	494330	8508	597 - 298	18260		H0090: 1	
	514122	9708	169 - 435	19460			
HLTEG37	417243	8509	2 - 253	18261	Ser-58 to Gly-64.	H0090: 1 and L0789: 1.	
HLTEC83	574630	8510	52 - 165	18262	Asp-5 to Gly-11.	H0090: 1	
HLTEC35	574632	8511	131 - 247	18263	Asn-13 to Pro-21.	H0090: 1	
HLTEA20	669900	8512	298 - 594	18264	Ser-14 to Pro-19.	L0749: 2, H0090: 1, L0438: 1 and L0758: 1.	
HLTDR43	715529	8513	3 - 140	18265	Tyr-8 to Leu-19.	L0438: 2, L0754: 2, H0090: 1, L0803: 1, L0352: 1 and L0439: 1.	
HLTDJ17	577379	8514	370 - 603	18266		H0090: 1, L0766: 1, L0745: 1, L0747: 1 and L0779: 1.	
HLTDH96	796560	8515	165 - 287	18267		H0090: 1 and L0748: 1.	250100, 250800, 250800
HLTDG59	739699	8516	68 - 352	18268		H0090: 1 and L0748: 1.	
HLTDG30	693329	8517	3 - 119	18269	Cys-10 to Pro-16, Glu-34 to Pro-39.	H0090: 1 and L0746: 1.	
HLTDB38	456860	8518	262 - 432	18270		L0748: 2 and H0090: 1.	
HLTCZ55	732385	8519	142 - 270	18271	Pro-38 to Ser-43.	H0090: 1 and L0758: 1.	
HLTCX39	705648	8520	1 - 336	18272		H0090: 1 and L0596: 1.	
HLTCT77	772458	8521	165 - 368	18273		H0090: 1 and L0745: 1.	102770, 120280, 120280, 166600, 170995, 232400, 232400, 600309, 601414, 601691, 601691, 601691, 601691, 601718, 602094
HLTCR77	772457	8522	154 - 303	18274		H0090: 1 and L0745: 1.	
HLTCR11	967559	8523	3 - 200	18275	Pro-54 to Lys-61.	H0090: 1 and L0363: 1.	
HLTCM59	442563	8524	2 - 208	18276		H0090: 1	
	739501	9709	26 - 241	19461	Lys-11 to Ser-16.		
HLTCI43	715530	8525	3 - 335	18277	Thr-16 to Arg-23,	H0090: 1 and L0439: 1.	

						Ser-35 to Leu-51, Arg-62 to Thr-75, Ser-80 to Ser-88.				
HLTCI11	967541	8526	152 - 295	18278		Gln-1 to Ser-6, Gln-23 to Phe-31.				H0090: 1, L0769: 1 and L0758: 1.
HLTCH41	507362	8527	93 - 365	18279		Lys-9 to Leu-21, Asn-49 to Arg-55, Gly-62 to Ser-69.				H0090: 1 and L0754: 1.
HLTBU47	720662	8528	235 - 354	18280						H0090: 1 and L0748: 1.
HLTBU44	522741	8529	175 - 447	18281		Lys-6 to Ser-13, Arg-29 to Arg-48, Val-50 to Ser-56.				H0090: 1
HLTBS07	954407	8530	2 - 106	18282						H0090: 1 and L0659: 1.
HLTBF58	735194	8531	157 - 354	18283						H0090: 1 and L0745: 1.
HLTBF56	907024	8532	302 - 526	18284		Asn-36 to Arg-48.				L0766: 3 and H0090: 1.
HLTBA68	733857	8533	241 - 420	18285		Tyr-1 to Lys-6.				L0439: 2, H0090: 1 and L0745: 1.
HLTBA41	712721	8534	273 - 491	18286		Tyr-44 to Asn-52, Ser-64 to Gln-69.				L0748: 2, H0090: 1 and L0749: 1.
HLTBA35	707243	8535	124 - 378	18287		Lys-17 to Ser-30, Gln-44 to Glu-52.				H0090: 1 and L0731: 1.
HLTAM07	954419	8536	3 - 215	18288		Ser-7 to Pro-13.				H0090: 1, L0766: 1 and L0776: 1.
HLTAK57	735163	8537	1 - 90	18289		Thr-24 to Ser-30.				H0090: 1 and L0756: 1.
HLTAA39	710361	8538	444 - 647	18290		Cys-1 to Trp-6.				L0740: 2, H0090: 1, L0439: 1 and L0777: 1.
HLTAA27	684649	8539	3 - 92	18291						L0754: 3 and H0090: 1.
HLMNU01	916641	8540	223 - 366	18292						H0255: 1 and L0766: 1.
HLMNQ18	666544	8541	245 - 442	18293						L0749: 3 and H0255: 1.
HLMMZ09	575837	8542	151 - 324	18294		Gly-1 to Trp-17, Ala-51 to Tyr-58.				H0255: 1
HLMMT20	830074	8543	80 - 166	18295						L0748: 2, H0255: 1, L0471: 1 and L0766: 1.
HLMMR90	575905	8544	1 - 522	18296		Gly-1 to Ser-8, Leu-21 to Gly-30.				AR051: 30, AR050: 30, AR054: 20 H0255: 1 and L0599: 1.

HLMK61	532605	8545	506 - 129	18297	Gln-9 to Trp-15, Thr-45 to Lys-50, Gln-61 to Leu-66, Trp-79 to Val-87.	AR051: 38, AR054: 35, AR050: 33 H0255: 1		
	856817	9710	197 - 3	19462				
	856818	9711	3 - 263	19463	Cys-1 to Gly-8, Gln-13 to Trp-19, Thr-49 to Lys-54, Gln-65 to Leu-70.			
	724485	8546	1 - 207	18298				
HLMK50						H0255: 1, L0534: 1 and L0757: 1.		
HLMME94	811320	8547	158 - 352	18299	Pro-9 to Lys-16.	H0255: 1 and L0754: 1.		
HLMME01	916816	8548	38 - 382	18300		H0255: 1 and L0766: 1.		
HLMME43	714439	8549	198 - 542	18301	Ser-20 to Arg-25, Gly-51 to Leu-58, Leu-84 to Glu-90.	L0748: 4, H0255: 1, L0761: 1, L0768: 1 and L0747: 1.		
HLMY59	878870	8550	153 - 356	18302	Val-39 to Asn-49.	H0255: 1		
HLMIG57	835799	8551	209 - 451	18303	Ala-6 to Glu-19, Ser-49 to Leu-56.	AR054: 19, AR050: 10, AR051: 2		
HLMHW80	775382	8552	177 - 446	18304	Pro-1 to Lys-6, Gly-27 to Lys-42.	H0255: 1 and L0754: 1. H0255: 1 and L0748: 1.		
HLMHT61	742044	8553	246 - 398	18305		H0255: 1 and L0754: 1.		
HLMHT49	722191	8554	253 - 411	18306		H0255: 1 and L0581: 1.		
HLMHL66	910804	8555	1 - 252	18307	Pro-32 to Ser-39.	AR050: 11, AR054: 10, AR061: 6, AR089: 3, AR051: 3		
						H0255: 1		
HLMHL03	856859	8556	183 - 1	18308	Lys-1 to Lys-15, Gln-50 to Arg-61.	H0255: 1 and L0603: 1.		
HLMFU46	718075	8557	276 - 443	18309	Arg-14 to Arg-21.	H0255: 1 and L0747: 1.		
HLMFL88	574812	8558	1 - 756	18310	Ala-61 to Glu-70, Pro-90 to Arg-98.	H0255: 1		
HLMFG79	974552	8559	49 - 234	18311	Thr-23 to Gly-29.	H0255: 1		
HLMFE91	531212	8560	3 - 434	18312		H0255: 1		
HLMFE79	531213	8561	190 - 402	18313		H0255: 1		



HLMFE17	531218	8562	2 - 151	18314			H0255: 1		
HLMFD62	754076	8563	140 - 289	18315		Pro-2 to Ser-7, Glu-26 to Pro-31.	L0439: 3 and H0255: 1.		
HLMDX01	921546	8564	160 - 414	18316			H0254: 1, L0748: 1 and L0777: 1.		
HLMDH08	960055	8565	1 - 258	18317		Glu-13 to Ser-22, Ser-34 to Pro-39, Lys-50 to Gly-61, Leu-63 to Lys-68.	L0748: 4, L0770: 2, H0254: 1, L0749: 1, L0777: 1 and L0599: 1.		
HLMDC26	684911	8566	132 - 377	18318		Gly-20 to Lys-32.	H0254: 1 and L0740: 1.		
HLMCL59	529908	8567	59 - 238	18319		Glu-22 to Lys-31.	L0748: 2 and H0254: 1.		
HLMCI55	741635	8568	3 - 344	18320		Pro-14 to Gly-21, Asp-24 to His-30, Ala-36 to Ala-51.	H0254: 1, L0756: 1 and L0758: 1.		
HLMBX91	879359	8569	94 - 627	18321		Pro-6 to Ser-15, Pro-87 to Arg-105, Gly-165 to Ala-170.	AR051: 13, AR054: 9, AR050: 3 H0255: 1		
HLMBQ54	730952	8570	94 - 369	18322		Arg-9 to Ser-26, Cys-55 to Lys-60.	H0255: 1 and L0748: 1.		
HLMBQ48	560848	8571	175 - 336	18323		Ser-39 to Arg-52.	H0255: 1		
	562006	9712	175 - 336	19464		Ser-39 to Arg-52.			
HLMEN04	615620	8572	84 - 254	18324			H0255: 1 and L0439: 1.		
HLMAY56	733708	8573	305 - 553	18325			L0777: 2 and H0254: 1.		
HLMAL82	523694	8574	3 - 113	18326			H0254: 1		
HLMAE86	852563	8575	88 - 291	18327			H0254: 1, L0766: 1, L0755: 1 and L0731: 1.		
HLLCD85	783454	8576	3 - 527	18328		Pro-2 to Asp-13, Pro-30 to Glu-37, Pro-56 to Lys-76, Lys-83 to Ile-98, Gly-105 to Ser-113, Gln-147 to Glu-152, Asp-154 to Lys-175.	H0354: 1, L0747: 1, L0750: 1 and L0591: 1.		
HLKDC76	953502	8577	157 - 867	18329			H0611: 1, L0740: 1, L0593: 1 and L0601: 1.	19p13.1	143890, 151440, 600173, 600276, 600310, 600310,

HLKDB78	773172	8578	105 - 278	18330	Ser-30 to Arg-39.	L0439: 2, H0611: 1 and L0756: 1.	601604, 601843
HLKDB02	918870	8579	126 - 269	18331	Lys-19 to Arg-36.	H0611: 1 and L0605: 1.	
HLEAN30	843294	8580	161 - 328	18332	Tyr-1 to Tyr-6.	H0073: 1	
	886013	9713	235 - 633	19465	Phe-43 to Met-48, Phe-89 to Trp-95, Ser-118 to Thr-130.		
HLCDA67	887375	8581	1 - 633	18333		AR054: 3, AR089: 2, AR061: 2, AR051: 1, AR050: 1 H0607: 1	
HKBBV11	965170	8582	237 - 398	18334	Ser-1 to Val-6, Gln-23 to Trp-33, Phe-36 to Arg-41.	L0471: 1 and H0625: 1.	
HKBBP05	928316	8583	34 - 171	18335		H0625: 1, L0761: 1 and L0748: 1.	
HKBAL06	934160	8584	265 - 540	18336		L0535: 2, H0625: 1 and L0759: 1.	
HKBAJ12	969644	8585	273 - 497	18337		L0766: 5 and H0625: 1.	
HKBAB02	918568	8586	522 - 226	18338		H0625: 1 and L0764: 1.	
HJUBA59	888006	8587	170 - 478	18339	His-26 to Leu-34, Pro-41 to Thr-54, Asp-64 to Ser-69.	AR051: 97, AR050: 79, AR054: 77 L0748: 3, H0129: 1, L0438: 1, L0439: 1, L0747: 1, L0749: 1, L0756: 1 and L0777: 1.	
HJTRB51	470587	8588	428 - 252	18340		H0022: 1 and L0766: 1.	
	618324	9714	261 - 443	19466			
	724786	9715	269 - 463	19467	Ser-7 to Met-12.		
	724787	9716	367 - 534	19468			
HJPDK80	418622	8589	726 - 914	18341	Pro-16 to Ser-28.	L0766: 2, L0749: 2, H0083: 1, L0777: 1 and L0590: 1.	
HJPDK57	768274	8590	1 - 195	18342	Pro-51 to Ser-56.	H0083: 1	
	857395	9717	597 - 860	19469			
HJPD116	518105	8591	13 - 237	18343	Pro-1 to Pro-17.	H0083: 1 and L0666: 1.	

HJPDE23	574115	8592	45 - 212	18344		H0083: 1		
HJPDD82	857401	8593	475 - 639	18345	Ser-30 to Asn-36.	L0748: 3, L0777: 2, H0083: 1, L0775: 1, L0744: 1, L0759: 1 and L0592: 1.		
HJPCW09	536677	8594	1 - 186	18346		H0083: 1	1q32.1	134580, 145260, 600105, 600759, 601975
HJPCV54	733607	8595	129 - 434	18347		H0083: 1 and L0751: 1.	17qter	
HJPCS54	871807	8596	473 - 619	18348		H0083: 1 and L0750: 1.		
HJPBP22	577455	8597	2 - 145	18349	Arg-39 to Arg-44.	H0083: 1	10q23-q24	157640, 174900, 180250, 186770, 236730, 271245, 278000, 278000, 600095, 600512, 601107, 601130, 601493, 602082
HJPBA04	615585	8598	172 - 423	18350		H0083: 1 and L0608: 1.		
HJPAZ91	882668	8599	1 - 522	18351	Ile-23 to Gly-28, Val-30 to Lys-35.	H0083: 1, L0740: 1, L0754: 1 and L0745: 1.		
HJPAY56	909242	8600	3 - 212	18352		AR061: 4, AR089: 3		
HJPAX11	967599	8601	367 - 483	18353		H0083: 1 and L0593: 1.		
HJPAT79	781697	8602	2 - 325	18354	Thr-4 to Thr-18, Leu-33 to Arg-43, Pro-66 to Gly-79.	H0083: 1, L0803: 1 and L0748: 1.		
HJPAG38	709103	8603	222 - 371	18355	Tyr-39 to Gly-44.	L0600: 3 and H0083: 1.		
HJPAA60	586675	8604	3 - 536	18356	Ile-73 to Thr-80, Asn-125 to Gln-136.	AR054: 9, AR089: 1, AR050: 1, AR061: 1, AR051: 0		
HJKSC56	578366	8605	248 - 421	18357		L0731: 2 and H0083: 1.		
HJBDM21	793381	8606	60 - 383	18358	Asn-54 to Gln-60, Phe-92 to Arg-98.	H0202: 1		
HJBDL70	757378	8607	65 - 709	18359	Phe-50 to Ser-58.	L0748: 2 and T0042: 1.		
HJBDG36	607769	8608	347 - 87	18360	Pro-34 to Tip-46.	L0439: 2 and T0042: 1.		
						T0042: 1		

	857433	9718	1 - 222	19470				
	895313	9719	527 - 778	19471				
	902075	9720	1098 - 1544	19472				
HJDBC63	745286	8609	214 - 423	18361	Ile-1 to Arg-12, Arg-14 to Thr-19.	T0042: 1 and L0604: 1.		
HJBDA11	967480	8610	470 - 700	18362	Leu-2 to Cys-13, Ser-32 to Cys-39.	L0777: 2, L0752: 2, T0042: 1, L0659: 1 and L0731: 1.		
HJBCZ05	925805	8611	19 - 867	18363		T0042: 1 and L0740: 1.		
HJBCM55	732411	8612	163 - 456	18364	Arg-1 to Pro-8, Ala-33 to Ala-39.	T0042: 1 and L0748: 1.		
HJBBG54	728810	8613	415 - 570	18365	Leu-5 to Gly-10, Pro-31 to Cys-52.	L0777: 2 and T0042: 1.		
HJBBF02	921242	8614	1 - 630	18366	Ile-1 to Ser-10, Gln-43 to Asp-49, Thr-118 to Thr-124, Ala-141 to Thr-146, Ser-155 to Glu-160.	L0599: 2, T0042: 1 and L0748: 1.		
HJBBE51	725948	8615	86 - 244	18367	Thr-23 to Lys-31.	T0042: 1 and L0748: 1.		
HJBBE07	954376	8616	325 - 471	18368		T0042: 1 and L0753: 1.		
HJBBD59	739633	8617	61 - 240	18369	Pro-1 to Arg-10, Pro-13 to Arg-19.	L0439: 2 and T0042: 1.		
HJBAP94	796835	8618	127 - 330	18370	Pro-22 to Pro-29.	L0591: 2, T0042: 1 and L0748: 1.		
HJAC160	577525	8619	84 - 233	18371		T0041: 1, L0740: 1 and L0754: 1.		
HJACH13	660943	8620	11 - 175	18372		L0439: 3, L0758: 3, L0779: 2, T0041: 1, L0771: 1, L0766: 1, L0803: 1, L0438: 1 and L0749: 1.		
HJABZ11	967665	8621	242 - 448	18373	Val-1 to Ser-8.	L0759: 2 and T0041: 1.		
HJABX39	709556	8622	189 - 656	18374	Pro-10 to Asn-16, Ser-63 to Glu-69, Ala-73 to Cys-79, Phe-83 to Thr-89, Trp-106 to Arg-120.	L0747: 2 and T0041: 1.		
HJABQ75	567249	8623	498 - 836	18375	Ser-1 to Ala-10,	T0041: 1		

HJABK84	783237	8624	1 - 567	18376	Leu-51 to His-71, Glu-79 to Gly-93.	L0740: 4 and T0041: 1.		
HJABK16	667399	8625	178 - 327	18377	Pro-10 to Glu-18, Leu-94 to Pro-100, Ser-106 to Asp-117, Thr-155 to Gly-162, Ser-169 to Val-178.	T0041: 1 and L0766: 1.		
HJABB93	791435	8626	40 - 303	18378	Leu-2 to Asn-11, Glu-24 to Ser-32.	L0748: 2, T0041: 1 and L0756: 1.		
HJAAZ32	699727	8627	92 - 214	18379	Gln-1 to Gly-7, Pro-43 to Gln-61, Cys-68 to Trp-76.	T0041: 1, L0790: 1, L0748: 1, L0745: 1 and L0759: 1.		
HJAAV85	783412	8628	76 - 183	18380	Pro-8 to Ala-26.	T0041: 1		
HJAAR02	921105	8629	111 - 269	18381		T0041: 1 and L0784: 1.		
HJAAO07	954263	8630	1 - 186	18382		T0041: 1 and L0385: 1.		
HJAAC22	779388	8631	236 - 409	18383	Met-1 to Pro-7.	T0041: 1 and L0439: 1.		
HJAAA83	928841	8632	241 - 432	18384	Lys-15 to Ser-29, Pro-34 to Pro-53.	L0777: 2, T0041: 1 and L0601: 1.		
HILBQ12	971556	8633	247 - 360	18385		T0002: 1 and L0766: 1.		
HILBC52	906873	8634	3 - 281	18386		L0748: 2 and T0002: 1.		
HILBC17	667204	8635	25 - 285	18387		L0777: 2 and T0002: 1.		
HHEZZ74	934486	8636	542 - 1630	18388	Glu-42 to Ser-70.	L0779: 2, L0800: 1, L0662: 1, L0740: 1, L0596: 1 and H0543: 1.		
HHEZT12	969437	8637	1 - 177	18389	Gln-1 to Lys-8, Val-12 to Cys-17, Met-32 to Phe-38, Pro-40 to Tyr-45.	L0769: 1 and H0543: 1.		
HHEZO92	942859	8638	1 - 546	18390	Val-18 to Trp-24, Ala-64 to Asp-69, Asn-88 to Arg-96, Ser-131 to Gly-137, Gly-150 to Thr-155, Gly-166 to Gly-174.	AR089: 15, AR061: 9 L0639: 1, L0748: 1, L0751: 1 and H0543: 1.		

HHEZN61	973136	8639	429 - 689	18391	Cys-8 to Pro-15, Pro-17 to Leu-23.	H0543: 1	
HHEYE64	973232	8640	329 - 601	18392	Trp-2 to Glu-7.	H0543: 1	
HHEXO05	930794	8641	972 - 1679	18393	Asp-14 to Glu-25, Tyr-109 to Pro-115, Pro-122 to Gly-127, Thr-142 to Lys-147, Leu-149 to Trp-164.	L0743: 2, L0750: 1, L0759: 1 and H0543: 1.	
HHEWX08	974405	8642	271 - 474	18394	Ser-51 to Pro-60.	H0543: 1	
HHEWX06	933879	8643	77 - 172	18395	Thr-18 to Ile-23.	L0785: 1, L0748: 1 and H0543: 1.	
HHEWT49	973142	8644	109 - 333	18396	Ser-23 to Ala-32, Gln-45 to Phe-52.	H0543: 1	
HHEWS01	914746	8645	241 - 414	18397		L0749: 1 and H0543: 1.	
HHEWQ10	963039	8646	2 - 121	18398	Gly-1 to Gly-6.	L0748: 1, L0749: 1 and H0543: 1.	
HHEWM53	973150	8647	170 - 382	18399	Leu-23 to Ser-35, Pro-66 to Ala-71.	H0543: 1	
HHEWG06	933874	8648	176 - 310	18400	Thr-13 to Phe-18, Asp-22 to Gly-29.	L0748: 1 and H0543: 1.	
HHEVZ06	933891	8649	2 - 193	18401	Asn-10 to His-15.	L0748: 1 and H0543: 1.	
HHEU76	906956	8650	544 - 227	18402		L0439: 1 and H0543: 1.	
HHEUP68	973215	8651	308 - 622	18403	Glu-27 to Asp-33, Glu-44 to Leu-51, Thr-59 to Pro-74.	H0543: 1	
HHEUL05	931045	8652	376 - 483	18404	Leu-1 to Ser-6.	L0438: 1 and H0543: 1.	
HHEUD79	774157	8653	3 - 230	18405	Asn-50 to Gly-56.	L0754: 1, L0756: 1 and H0543: 1.	
HHETR81	836730	8654	2 - 718	18406	Gly-1 to Ser-6, Pro-8 to Lys-16, Arg-67 to Cys-84, His-99 to Tyr-107, Met-133 to Cys-138, Pro-164 to Lys-170, Thr-172 to Lys-178.	L0766: 1 and H0543: 1.	
HHETP07	952217	8655	209 - 364	18407	Gly-32 to Phe-39.	L0608: 1 and H0543: 1.	

HHETN89	786361	8656	562 - 687	18408	Glu-11 to Gly-16.	L0747: 1 and H0543: 1.	
HHETN03	923009	8657	306 - 485	18409	Arg-55 to His-60.	L0659: 1 and H0543: 1.	
HHETK38	973120	8658	112 - 369	18410	Arg-1 to Ala-10, Arg-37 to Ser-44, Ser-54 to Asn-61.	H0543: 1	
HHETH36	901275	8659	212 - 424	18411	Gln-1 to Asp-30.	AR050: 13, AR054: 11, AR051: 3 H0543: 1	
HHESV83	780456	8660	3 - 122	18412	Glu-1 to Gly-9.	H0543: 1	
HHESV71	806332	8661	1 - 225	18413		H0543: 1	
HHES93	791729	8662	281 - 436	18414		L0756: 2, L0742: 1 and H0543: 1.	
HHEQV46	718640	8663	2 - 286	18415	Lys-15 to Leu-27, Pro-29 to Trp-37, Lys-39 to Glu-54, Gly-61 to Ser-91.	L0766: 1, L0749: 1, L0755: 1 and H0543: 1.	
HHEQT07	952452	8664	1523 - 1738	18416	Gly-8 to Lys-18, Gly-22 to Thr-28, Gly-49 to Ser-54, Gln-56 to Phe-63, Glu-65 to Arg-72.	L0763: 1 and H0543: 1.	
HHEQP75	973104	8665	2 - 307	18417	Arg-15 to Arg-21, Leu-54 to Ser-62, Ser-73 to Phe-81, Glu-91 to Lys-102.	H0543: 1	
HHEQL50	723930	8666	215 - 469	18418		L0592: 1 and H0543: 1.	
HHEQK53	727812	8667	524 - 703	18419		L0754: 2 and H0543: 1.	
HHEQH22	723305	8668	215 - 370	18420	Thr-14 to Gly-23, His-29 to Phe-35.	L0764: 1, L0745: 1 and H0543: 1.	147557, 600881, 601954
HHEQC89	786603	8669	229 - 387	18421	Lys-19 to Tyr-28.	L0766: 1 and H0543: 1.	
HHEQC26	679505	8670	344 - 466	18422	Lys-31 to Val-40.	L0749: 1 and H0543: 1.	
HHEQB59	738866	8671	196 - 324	18423	Lys-1 to Glu-11.	L0439: 1 and H0543: 1.	
HHEQB23	675500	8672	26 - 157	18424		L0773: 1, L0748: 1 and H0543: 1.	
HHEPW95	588266	8673	2 - 181	18425	Ser-52 to Arg-58.	H0543: 1	
HHEPW40	588265	8674	152 - 298	18426		H0543: 1	

HHEPW11	966789	8675	161 - 322	18427			H0543: 1		
HHEPT05	912266	8676	2104 - 2349	18428		Lys-25 to Gln-34.	L0439: 1 and H0543: 1.		
	971711	9721	350 - 174	19473					
	971712	9722	307 - 414	19474					
	971713	9723	425 - 180	19475		Lys-25 to Gln-34.			
	971714	9724	288 - 61	19476		Phe-23 to Gln-48, Lys-56 to Gly-61.			
HHEPT03	923410	8677	41 - 355	18429		Ser-7 to Ser-14.	H0543: 1		
HHEPN71	588241	8678	1 - 249	18430		Leu-53 to Trp-64.	L0752: 1 and H0543: 1.		
HHEPM69	588235	8679	279 - 386	18431			H0543: 1		
HHEPG62	877268	8680	179 - 361	18432		Glu-38 to Asn-44.	L0439: 2, L0777: 2, L0394: 1, L0438: 1, L0744: 1, L0754: 1, L0779: 1, L0753: 1, L0759: 1 and H0543: 1.		
HHEPG59	925436	8681	274 - 474	18433		Phe-7 to Asn-14.	L0748: 1, L0747: 1 and H0543: 1.		
HHEPF21	956241	8682	217 - 357	18434			L0803: 1 and H0543: 1.		
HHEOG81	588155	8683	210 - 365	18435		Glu-19 to Asp-27.	L0755: 1 and H0543: 1.		
HHEOA63	744995	8684	11 - 313	18436			L0748: 3 and H0543: 1.		
HHENY02	919775	8685	206 - 373	18437		Ile-7 to Cys-13.	L0386: 1 and H0543: 1.		
HHENW11	887661	8686	1 - 228	18438		Glu-26 to Lys-38, Ser-55 to Gln-63.	AR050: 71, AR054: 58, AR051: 53 H0543: 1.		
HHENQ08	959262	8687	68 - 259	18439		Thr-44 to Pro-55.	L0748: 2 and H0543: 1.		
HHENK21	858290	8688	2 - 310	18440		Pro-44 to Ser-51.	L0763: 1 and H0543: 1.		
HHENJ29	690576	8689	1 - 306	18441		Asp-4 to Gln-13, Val-22 to Gly-31, Glu-50 to Asp-63, Arg-70 to Asp-75, Ser-88 to Gly-94.	L0750: 1 and H0543: 1.		
HHEPD53	728111	8690	196 - 486	18442		His-54 to Ala-59, Ser-64 to Asn-70.	L0439: 1 and H0543: 1.		
HHEHC71	757844	8691	142 - 387	18443		Leu-70 to Ser-82.	L0747: 1 and H0543: 1.		
HHEMZ66	586737	8692	2 - 364	18444		Pro-14 to Ala-29, Glu-50 to Thr-55.	AR050: 326, AR054: 257, AR051: 188 H0543: 1		



HHEMW78	773507	8693	738 - 541	18445	Gln-42 to Met-64.	L0766: 1 and H0543: 1.	
HHEMV01	916281	8694	3 - 161	18446		L0748: 2 and H0543: 1.	
HHEMQ68	752326	8695	22 - 123	18447		H0543: 1	
HHEMQ48	493733	8696	287 - 111	18448		AR050: 99, AR054: 97, AR051: 82 H0543: 1	
	839526	9725	1 - 162	19477	Pro-22 to Glu-33.		
	887668	9726	1 - 216	19478	Thr-33 to Gly-40, Pro-59 to Leu-64, Thr-66 to Lys-72.		
HHEMN37	708468	8697	2 - 217	18449	Trp-1 to Ser-11.	H0543: 1	
HHEMK77	772115	8698	3 - 104	18450	Thr-6 to Asn-11, Thr-24 to Lys-34.	H0543: 1	
HHEMK26	681595	8699	120 - 470	18451	Pro-38 to Pro-44, Gln-65 to Ala-73.	H0543: 1	
HHEMJ91	789443	8700	233 - 445	18452	Lys-25 to Lys-34.	L0747: 4, L0439: 1, L0362: 1 and H0543: 1.	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601690, 601868, 602280, 602475
HHEMI69	755006	8701	371 - 174	18453	Pro-2 to Lys-12.	H0543: 1	
HHEMI56	469030	8702	257 - 66	18454	Gln-1 to Lys-13, Asp-54 to Asn-62.	H0543: 1	
HHEMI09	625459	8703	1 - 174	18455	Ser-27 to Gly-34, Ser-49 to Glu-54.	H0543: 1	
HHEMG02	917366	8704	325 - 122	18456		L0769: 1 and H0543: 1.	
HHEMG01	916297	8705	121 - 270	18457	Gln-23 to Val-33.	H0543: 1	

HHEMD56	733353	8706	2 - 292	18458	Gly-44 to His-50. Leu-12 to Ser-17.	L0766: 1, L0748: 1 and H0543: 1.		
HHEMC41	927255	8707	269 - 42	18459	Val-14 to Gln-19.	L0747: 2, L0753: 2, L0731: 2, L0750: 1 and H0543: 1.		
HHEMC10	969380	8708	309 - 596	18460	Asn-1 to Glu-7, Ile-70 to Trp-82.	AR050: 98, AR054: 85, AR051: 82, AR089: 28, AR061: 3 H0543: 1		
HHEMA35	467295	8709	390 - 623	18461	Thr-1 to Lys-9, Gln-60 to Pro-65.	L0748: 1 and H0543: 1.		
HHEMA07	933200	8710	190 - 369	18462		L0439: 2, L0804: 1, L0777: 1, L0731: 1 and H0543: 1.		
HHELA35	878217	8711	25 - 462	18463	Phe-62 to Arg-67, Gln-92 to Leu-104.	AR089: 1, AR061: 0 H0542: 1		
HHEKZ12	878267	8712	9 - 395	18464	Phe-62 to Arg-67, Gln-92 to Leu-104.	AR089: 1, AR061: 0 H0542: 1		
HHEK170	955092	8713	39 - 215	18465	Phe-1 to Ser-8, Glu-45 to Met-53.	L0754: 1, L0747: 1 and H0542: 1.		
HHEJR35	878223	8714	1 - 249	18466		L0745: 2 and H0542: 1.		
HHEHK04	925717	8715	1 - 621	18467	Ser-16 to Gln-22.	L0777: 5 and H0542: 1.		
HHEHG38	943785	8716	2 - 583	18468	Cys-12 to Gly-19, Gly-28 to Leu-35, Lys-37 to His-42.	AR061: 5, AR089: 4 L0779: 1, L0777: 1 and H0542: 1.		
HHEGC05	930878	8717	124 - 258	18469	Gln-10 to Arg-17, Pro-34 to Tyr-45.	L0752: 1 and H0542: 1.		
HHEFN76	767770	8718	1 - 267	18470		L0748: 2 and H0542: 1.		
HHEFM41	711954	8719	580 - 738	18471	Lys-1 to Lys-8, Arg-22 to Leu-27.	L0586: 1 and H0542: 1.		
HHEEY63	744592	8720	400 - 537	18472	Arg-1 to Arg-20, Tyr-31 to His-36.	L0759: 1 and H0542: 1.		
HHEDN70	757106	8721	1 - 390	18473	Thr-63 to Phe-68, Asp-78 to Pro-85.	L0593: 1 and H0542: 1.		
HHEDN51	734118	8722	205 - 354	18474	Gly-15 to Leu-21.	H0542: 1		
HHEDN49	588136	8723	274 - 396	18475		L0369: 1 and H0542: 1.		
HHEDI54	588129	8724	76 - 276	18476		L0749: 1 and H0542: 1.		

HHEDB30	692086	8725	100 - 429	18477	Arg-1 to Gly-9, Gly-12 to Asn-21, Gly-32 to Pro-38.	L0750: 1 and H0542: 1.		
HHECT42	588098	8726	186 - 386	18478	Glu-13 to Glu-18, Pro-36 to Glu-59.	L0594: 2 and H0542: 1.		
HHECM62	934414	8727	148 - 330	18479		L0779: 2, L0596: 1 and H0542: 1.		
HHECA10	973228	8728	66 - 257	18480	Arg-35 to Gly-41.	H0542: 1		
HHEBQ68	752956	8729	3 - 200	18481	Ala-1 to Ala-6, Cys-34 to Gly-42, Cys-56 to Pro-61.	H0542: 1		
HHEBQ59	739216	8730	343 - 140	18482		H0542: 1		
HHBO04	615127	8731	277 - 447	18483	Gln-28 to Leu-33.	H0542: 1		
HHBEM89	786088	8732	44 - 253	18484	Gln-44 to Leu-50, Tyr-52 to Lys-59.	H0542: 1	15q25	231680, 276700
HHBEM53	728087	8733	115 - 294	18485		H0542: 1		
HHBEM08	858429	8734	163 - 435	18486		L0766: 2 and H0542: 1.		
HHBEB80	775424	8735	209 - 36	18487	Pro-15 to Arg-27, Pro-38 to Lys-51.	H0542: 1		
HHBEB22	858418	8736	85 - 300	18488	His-3 to Arg-9, Pro-15 to Glu-26, Ser-48 to Gly-61.	H0542: 1		
HHBEA86	785413	8737	1 - 138	18489	Pro-23 to Pro-34.	L0752: 1, L0731: 1, L0605: 1 and H0542: 1.		
HHBAL37	491205	8738	464 - 240	18490		H0542: 1		
	858421	9727	1 - 303	19479				
	858425	9728	100 - 261	19480	Cys-10 to Leu-16.			
HHBAJ78	773538	8739	2 - 313	18491	Leu-7 to Cys-14, Glu-22 to Glu-36, Gln-57 to Lys-63, Asp-85 to Leu-97.	L0361: 2 and H0542: 1.	7q21-q22	116860, 126650, 126650, 129900, 133170, 154276, 173360, 173360, 602136, 602136, 602136, 602447
HHBAF06	935355	8740	169 - 381	18492	Val-3 to Leu-8.	L0518: 4, L0599: 1 and H0542: 1.		
HHBAO08	959305	8741	536 - 736	18493	Ser-12 to Phe-18.	L0794: 4, L0651: 1 and		

HHEAC20	668948	8742	1 - 459	18494	Ser-16 to Gly-25, Asp-33 to Asn-42, Cys-72 to Ser-85, Glu-98 to Glu-106, Glu-114 to Gly-130.	H0542: 1. H0542: 1		
HHEAA02	932265	8743	26 - 631	18495	Asn-1 to Gly-19, Ala-24 to Arg-30, Phe-53 to Arg-69, Gln-104 to Ser-110, Ser-116 to Thr-123.	L0593: 2 and H0542: 1.		
HFSBE12	970629	8744	132 - 317	18496		H0057: 1		
HFSBB12	971571	8745	424 - 218	18497		H0057: 1 and L0779: 1.		
HFSBB06	960835	8746	326 - 180	18498	Pro-14 to Ala-19.	L0766: 2 and H0057: 1.		
HFSAZ51	725973	8747	453 - 316	18499		L0749: 3, L0748: 2 and H0057: 1.		
HFSAX30	693419	8748	379 - 173	18500		H0057: 1 and L0756: 1.		
HFSAW27	684668	8749	132 - 1	18501		L0794: 2, H0057: 1, L0758: 1 and L0581: 1.		
HFSAU89	785904	8750	444 - 238	18502	Thr-1 to Ala-7.	H0057: 1 and L0748: 1.		
HFSAU84	781861	8751	105 - 1	18503	Leu-16 to Cys-22.	H0057: 1 and L0749: 1.		
HFSAT96	504394	8752	239 - 60	18504	His-3 to Asp-15.	H0057: 1 and L0748: 1.		
HFSAT48	720843	8753	465 - 331	18505	Cys-4 to Phe-10, Lys-40 to His-45.	L0666: 2, L0747: 2, L0731: 2, H0057: 1, L0804: 1, L0791: 1, L0779: 1 and L0780: 1.		
HFSAS86	785851	8754	196 - 107	18506	Tyr-5 to Ser-11, Phe-13 to Asp-23.	L0777: 2, H0057: 1 and L0754: 1.	6p21	180297, 248611, 251000, 263200, 600211, 600701, 601690
HFSAR68	675246	8755	398 - 207	18507	His-1 to Ser-25, Asp-32 to Lys-44.	H0057: 1		
	826790	9729	140 - 319	19481				
HFSAP25	677463	8756	344 - 249	18508	Leu-4 to Ser-10, Thr-19 to Asn-24.	H0057: 1 and L0748: 1.		
HFSAK31	504424	8757	185 - 60	18509	Gln-18 to Tyr-31.	H0057: 1		

HFSAK14	504431	8758	352 - 251	18510	Pro-5 to Ser-14.	L0748: 2 and H0057: 1.	
	504432	9730	72 - 209	19482	Lys-1 to Leu-9.		
HFSAL68	753858	8759	319 - 209	18511		L0748: 2 and H0057: 1.	
HFSAL34	526472	8760	697 - 524	18512		H0057: 1, L0775: 1, L0439: 1, L0740: 1 and L0747: 1.	
HFSAG03	960973	8761	496 - 320	18513	Glu-33 to Thr-45, Arg-50 to Ser-59.	AR089: 18, AR061: 11 H0057: 1, L0520: 1 and L0389: 1.	
HFSAP53	728528	8762	314 - 96	18514		H0057: 1 and L0588: 1.	
HEOQI52	850966	8763	21 - 323	18515		H0457: 1, L0521: 1, L0766: 1 and L0581: 1.	
HEOPY91	933173	8764	132 - 314	18516	Ala-21 to Ala-34, Ser-38 to Gln-50.	H0457: 1 and L0366: 1.	
HEOOA49	942561	8765	1 - 576	18517	Leu-42 to Asp-50, Pro-94 to Ala-100, Ser-169 to Gly-174.	AR089: 6, AR061: 2 H0457: 1	
HEONX61	741864	8766	2 - 235	18518		H0457: 1 and L0748: 1.	
HEONO64	746660	8767	158 - 427	18519		L0748: 3 and H0457: 1.	
HEONO59	741361	8768	325 - 756	18520		AR089: 5, AR061: 3 H0457: 1 and L0752: 1.	
HEONN02	840210	8769	64 - 225	18521		H0457: 1 and L0740: 1.	120435, 120435, 126600, 135300, 136435, 152790, 152790, 157170, 182601, 278300, 601071, 601771, 602134
HEONL19	575884	8770	170 - 325	18522		H0457: 1	
HEONL09	961147	8771	3 - 155	18523	Glu-30 to Lys-50.	H0457: 1	
HEONL06	935516	8772	244 - 414	18524		H0457: 1	
HEONK37	707505	8773	62 - 313	18525	Ser-1 to Asn-9.	L0754: 2 and H0457: 1.	
HEONK10	964757	8774	90 - 206	18526		H0457: 1 and L0747: 1.	
HEONJ18	575888	8775	30 - 338	18527	Arg-10 to Asp-15, Gly-33 to Gln-40, Ser-42 to Cys-49, Arg-60 to Asn-66,	H0457: 1	

HEONI92	792772	8776		330 - 602	18528	Gln-81 to Ala-87.		H0457: 1 and L0603: 1.	
HEOMX03	922962	8777		361 - 552	18529	Asp-1 to Ser-9.		H0457: 1	
HEOMX01	913683	8778		2 - 559	18530	Val-8 to Arg-18, Glu-40 to His-46, Pro-62 to Cys-69, Ser-105 to Ser-115, Pro-124 to Pro-129, Pro-139 to Ser-145, Ser-163 to Ser-169.		H0457: 1	
HEOMV61	506231	8779		3 - 326	18531	Pro-51 to Ser-65.		H0457: 1	
HEOMQ68	753075	8780		96 - 218	18532	Lys-1 to Phe-11.		H0457: 1 and L0599: 1.	
HEOMQ04	931032	8781		2 - 172	18533			L0756: 2 and H0457: 1.	
HEOML91	667931	8782		63 - 290	18534			H0457: 1	
HEOML76	575927	8783		93 - 224	18535	His-7 to Gln-12, Pro-14 to Lys-21.		H0457: 1	
HEOMH63	745146	8784		80 - 256	18536			H0457: 1 and L0745: 1.	
HEICC56	733383	8785		2 - 100	18537	Pro-1 to Gly-9, Arg-23 to Gln-33.		S0140: 1	
HEIBB84	781994	8786		2 - 406	18538			L0745: 2 and S0140: 1.	
HEIBB31	697987	8787		2 - 142	18539	Leu-29 to Ser-35.		S0140: 1 and L0777: 1.	
HEIBA15	888667	8788		197 - 427	18540			AR050: 12, AR051: 10, AR054: 10 S0140: 1	
HEIAX24	677177	8789		181 - 360	18541	Leu-7 to Gly-12, Glu-23 to Cys-29.		S0140: 1	
HEIAX11	967272	8790		2 - 289	18542	Thr-47 to Asn-55.		S0140: 1 and L0640: 1.	
HEIAU39	861503	8791		1 - 366	18543	Lys-1 to Ser-7, Phe-31 to Arg-43.		L0534: 1, S0140: 1, L0794: 1, L0790: 1 and L0791: 1.	
HEIAR07	953626	8792		186 - 410	18544	Ser-1 to Arg-14, Asp-27 to Gly-32, Gly-42 to Ala-48, Leu-65 to Ala-72.		S0140: 1 and L0592: 1.	
HEIAJ39	705643	8793		61 - 402	18545			S0140: 1 and L0766: 1.	
HEIAI86	785680	8794		34 - 135	18546	Ser-1 to Gly-19.		L0361: 2 and S0140: 1.	
HEIAD76	574163	8795		2 - 169	18547	Leu-11 to Gln-21.		S0140: 1	

HEIAC62	745672	8796	30 - 176	18548	Gln-38 to Gly-45.	S0140: 1		
HDTMJ27	851806	8797	316 - 495	18549		H0486: 1 and L0589: 1.		
HDTLI05	928253	8798	1 - 285	18550	Thr-1 to Met-6, Thr-8 to Asp-15, Thr-22 to Gln-27, His-36 to Val-44, Leu-55 to Asp-75, Ser-80 to Asp-95.	L0766: 3, L0754: 2, L0758: 2, H0486: 1 and L0748: 1.		
HDTLE28	851830	8799	2 - 172	18551	Phe-27 to Lys-34.	H0486: 1 and L0631: 1.		
HDTLB90	969209	8800	293 - 733	18552	Glu-24 to Ser-35.	L0753: 2, H0486: 1, L0774: 1 and L0749: 1.		
HDTKX61	806340	8801	105 - 521	18553	Pro-32 to Ser-46, Asn-58 to Pro-76.	H0486: 1 and L0747: 1.		
HDTJP10	963456	8802	293 - 469	18554	Lys-19 to Arg-25, Phe-27 to Phe-33, Pro-38 to Lys-44, Ser-49 to Asp-56.	H0486: 1, L0648: 1 and L0755: 1.		
HDTJF29	887186	8803	3 - 299	18555	Pro-15 to Gln-30, Pro-45 to Ala-50, Val-62 to Trp-67, Gln-79 to His-99.	AR054: 25, AR050: 21, AR051: 11 H0486: 1, L0779: 1 and L0777: 1.		
HDTJF05	931977	8804	10 - 486	18556	Pro-6 to Pro-18, Ala-35 to His-42, Gly-51 to Ser-58.	L0717: 1 and H0486: 1.		
HDTIO74	933606	8805	3 - 239	18557	Ile-37 to Arg-42.	AR061: 3, AR089: 1 H0486: 1 and L0748: 1.		
HDTIO16	934151	8806	2 - 673	18558	Val-14 to Arg-20, Arg-28 to Gln-33, Arg-106 to Trp-111.	AR089: 31, AR061: 2 H0486: 1		
HDTIG62	851951	8807	3 - 263	18559	Cys-65 to Gly-70.	L0766: 3, H0486: 1, L0749: 1 and L0779: 1.		
HDTIA48	851944	8808	2 - 271	18560	Pro-1 to Asp-20, Glu-25 to Pro-32, Asp-64 to Lys-72, Glu-85 to Leu-90.	H0486: 1 and L0779: 1.		
HDTIU79	774217	8809	83 - 385	18561	Thr-17 to Arg-41,	L0757: 2 and H0486: 1.		

HDTHS05	926048	8810	462 - 896	18562	Arg-49 to Cys-57. Phe-42 to Gly-57, Ala-60 to Ser-73, Pro-91 to Gly-101, Lys-108 to Gln-116.	H0486: 1 and L0777: 1.		
HDTHP45	841796	8811	23 - 160	18563	Glu-8 to Ser-16.	H0486: 1		
HDTHI02	918728	8812	120 - 266	18564	Ser-29 to Lys-35.	L0759: 3 and H0486: 1.		
HDTHG69	754464	8813	70 - 234	18565		H0486: 1 and L0748: 1.		
HDTHE32	851964	8814	230 - 490	18566		L0790: 2, L0749: 2, H0486: 1 and L0363: 1.		
HDTHA77	771334	8815	458 - 312	18567		L0748: 2, H0486: 1, L0743: 1 and L0731: 1.		
HDGTG62	742828	8816	22 - 180	18568		L0748: 2 and H0486: 1.		
HDGTGQ31	697539	8817	3 - 380	18569		H0486: 1 and L0747: 1.		
HDGTGH10	963966	8818	140 - 3	18570	Leu-10 to Gln-20.	L0779: 2 and H0486: 1.		
HDGTGC27	682687	8819	313 - 429	18571		H0486: 1 and L0748: 1.		
HDTFX46	915075	8820	265 - 501	18572		H0486: 1 and L0748: 1.		
HDFTF42	713399	8821	259 - 474	18573		H0486: 1 and L0766: 1.		
HDFTFR93	792077	8822	38 - 298	18574	Glu-39 to Lys-49.	H0486: 1 and L0439: 1.		
HDFTFN38	706752	8823	205 - 408	18575	Ser-10 to Tyr-17.	H0486: 1, L0471: 1, L0745: 1 and L0756: 1.		
HDTFI27	682705	8824	92 - 382	18576		L0803: 6, L0805: 2, L0439: 12q15-q21 2, H0486: 1, L0809: 1, L0779: 1 and L0777: 1.	181430, 217300, 600698, 600698, 600698, 600698, 600808, 602116	
HDTFGI5	913812	8825	40 - 333	18577	Ile-8 to Phe-15, Glu-27 to Met-32, Asp-63 to Trp-72.	L0361: 2, H0486: 1, L0766: 1 and L0439: 1.		
HDTEI62	587822	8826	111 - 332	18578		H0486: 1, L0745: 1 and L0746: 1.		
HDTEJ57	872215	8827	1 - 429	18579	Gly-1 to His-9, Ala-33 to Pro-39.	L0741: 2 and H0486: 1.		
HDIDS89	799881	8828	120 - 233	18580		H0486: 1		
HDIDS44	799863	8829	138 - 266	18581	Lys-8 to Pro-13.	H0486: 1		
HDIDP20	883680	8830	1 - 384	18582	Leu-60 to His-67.	L0483: 2 and H0486: 1.	7q32	180105, 190900, 222800, 246900



HDTDF02	919572	8831	1 - 255	18583	Pro-10 to Ser-20.	H0486: 1 and L0756: 1.		
HDTDL15	851999	8832	15 - 245	18584	Thr-61 to Asn-69.	L0546: 4, H0486: 1 and L0779: 1.		
HDTDJ44	587742	8833	179 - 439	18585		L0746: 2, L0753: 2, H0486: 1, L0606: 1 and L0745: 1.		
HDTDG89	799870	8834	221 - 382	18586	Gln-27 to Val-34.	H0486: 1		
HDTDD88	615173	8835	113 - 439	18587	Arg-23 to Arg-29, Arg-40 to Pro-54.	H0486: 1		
HDTDD72	587710	8836	162 - 371	18588		AR089: 159, AR061: 142 H0486: 1	17p13.3	113721, 247200, 600059, 601545
HDTDD70	757088	8837	327 - 446	18589	Asn-21 to Arg-37.	H0486: 1		
HDTDD67	754739	8838	3 - 335	18590	Glu-1 to His-9, Ala-11 to Thr-19.	H0486: 1		
HDTDD15	668754	8839	9 - 188	18591		H0486: 1	15q22	102578, 109700, 151670, 154550, 601780
HDTDC74	799868	8840	138 - 305	18592	Leu-2 to Lys-8, Ala-19 to Gly-35, Pro-37 to Asn-45, Lys-50 to Gln-56.	H0486: 1		
HDTDC64	799871	8841	219 - 389	18593		H0486: 1		
HDTDC38	706741	8842	335 - 523	18594	Ala-26 to Ser-36.	L0748: 2 and H0486: 1.	6q26-q27	100678, 147280, 152200, 167000, 173350, 173350, 173350, 180020, 600320, 600883, 602544
HDTDC30	692063	8843	15 - 290	18595		H0486: 1		
HDTDB37	587699	8844	105 - 404	18596	Glu-1 to Ser-10, Ser-24 to Ala-29.	H0486: 1, L0471: 1, L0745: 1 and L0777: 1.		
HDTDB21	587700	8845	258 - 61	18597	Ile-15 to Asn-24, Lys-61 to Lys-66.	L0747: 2, H0486: 1 and L0766: 1.		
HDTCC55	934923	8846	195 - 911	18598	Ser-26 to Ser-32.	H0486: 1 and L0766: 1.		
HDTCC01	916455	8847	371 - 562	18599		H0486: 1, L0506: 1, L0508: 1, L0493: 1 and L0758: 1.		
HDTBZ83	842950	8848	2 - 454	18600	Arg-1 to Gly-15.	H0486: 1		

HDTBV06	935393	8849	37 - 198	18601			H0486: 1 and L0809: 1.
HDTBU73	764410	8850	538 - 720	18602	Gly-24 to Ile-30.		H0486: 1, L0748: 1 and L0747: 1.
HDTBT35	706730	8851	1 - 306	18603			L0521: 2, H0486: 1, L0740: 1, L0756: 1 and L0779: 1.
HDTBS91	789425	8852	2 - 520	18604	Glu-1 to Leu-18.		H0486: 1 and L0439: 1.
HDTBS45	591589	8853	289 - 2	18605			L0749: 2, H0486: 1, L0637: 1 and L0748: 1.
HDTBR39	705350	8854	452 - 742	18606			H0486: 1 and L0758: 1.
HDTBP84	783024	8855	78 - 275	18607	Leu-1 to Ala-6.		H0486: 1 and L0750: 1.
HDTBM53	727526	8856	25 - 150	18608			H0486: 1
HDTBM31	697918	8857	136 - 372	18609	Glu-18 to Cys-23, Asp-74 to Ser-79.		L0750: 2 and H0486: 1.
HDTBK62	742603	8858	45 - 221	18610	His-26 to Cys-41, Lys-54 to Lys-59.		H0486: 1
HDTBG80	916167	8859	173 - 478	18611	Lys-34 to Arg-41.		H0486: 1 and L0362: 1.
HDTBD67	899636	8860	252 - 1175	18612	Pro-20 to Pro-29, Phe-42 to Val-52, Leu-106 to Pro-113, Arg-134 to Gly-139, Ala-207 to Asn-213, Thr-227 to Phe-239.		AR054: 32, AR051: 10, AR089: 3, AR061: 2, AR050: 2, H0486: 1
	902517	9731	2 - 838	19483	Phe-13 to Val-23, Leu-77 to Pro-84, Arg-105 to Gly-110, Ala-178 to Asn-184, Thr-198 to Phe-210.		
HDTAU14	658429	8861	66 - 176	18613			H0486: 1 and L0745: 1.
HDTAT80	911928	8862	105 - 281	18614	Gly-44 to Thr-50.		H0486: 1
HDTAP53	728216	8863	234 - 329	18615			H0486: 1 and L0748: 1.
HDTAH15	840327	8864	180 - 476	18616			H0486: 1, L0747: 1 and L0731: 1.
HDTAE60	810259	8865	36 - 167	18617	Val-32 to Gln-37.		H0486: 1 and L0748: 1.
HDTAE44	799902	8866	260 - 397	18618			H0486: 1 and L0438: 1.
HDTAE29	780991	8867	99 - 332	18619			H0486: 1
HDTAE16	661997	8868	206 - 439	18620	Ala-12 to Ser-17.		H0486: 1

HDTAE09	799874	8869	153 - 305	18621	Ser-24 to Ser-30, Pro-73 to His-78.	H0486: 1	Xq13.1-q13.3	304040, 305100, 305450, 309605, 312760, 314250, 314580
HD TAB89	786039	8870	113 - 310	18622	Arg-3 to Asp-9, Pro-49 to Gly-54, Ser-65 to His-70, Lys-78 to Lys-111.	H0486: 1 and L0748: 1.		
HD TAA31	937609	8871	1100 - 1432	18623	Arg-3 to Asp-9, Pro-49 to Gly-54, Ser-65 to His-70, Lys-78 to Lys-111.	AR089: 14, AR061: 4 H0486: 1 and L0779: 1.		
	941948	9732	1100 - 1432	19484	Arg-3 to Asp-9, Pro-49 to Gly-54, Ser-65 to His-70, Lys-78 to Lys-111.			
HDRAC08	963325	8872	224 - 33	18624	Ser-6 to Ser-11, Thr-55 to Pro-60.	H0537: 1 and L0439: 1.		
HDQPR06	936658	8873	2 - 202	18625	Ser-8 to Glu-20, Glu-26 to Gln-36.	H0522: 1, L0751: 1, L0777: 1 and L0594: 1.		
HDQPP57	926953	8874	64 - 180	18626	Lys-34 to Ser-39.	H0522: 1 and L0748: 1.		
HDQII08	958252	8875	338 - 469	18627	Arg-8 to Ile-13.	H0521: 1 and L0749: 1.		
HDQHU84	782202	8876	1 - 171	18628	Pro-15 to Gly-25, Gly-29 to Trp-41.	L0748: 3 and H0521: 1.		
HDQHO94	793387	8877	1 - 126	18629	Ser-8 to Ser-21, Thr-46 to Asp-55, Lys-91 to Gly-97, Glu-103 to Asp-115, Gln-125 to Ala-135, Pro-137 to Ser-143, Lys-154 to Phe-163.	L0766: 1 and H0521: 1.		
HDQHU04	926978	8878	3 - 614	18630	Ser-1 to Trp-9, Gln-35 to Lys-40.	L0370: 1 and H0521: 1.		
HDQGW10	963512	8879	46 - 267	18631	Gln-30 to Pro-35.	L0367: 1, H0521: 1 and L0439: 1.		
HDQGF78	772952	8880	352 - 480	18632	Ser-63 to Lys-68.	H0521: 1 and L0748: 1.		
HDQFT10	852587	8881	121 - 324	18633	Gly-74 to Thr-80.	L0375: 1 and H0521: 1.		
HDQFJ39	852593	8882	197 - 469	18634		L0766: 1 and H0521: 1.		

HDQFE93	791724	8883	870 - 1046	18635			L0439: 4, H0521: 1 and L0740: 1.		
HDQEX85	875473	8884	2 - 409	18636			H0521: 1, L0748: 1 and L0749: 1.		
HDQEW83	780551	8885	2 - 283	18637			L0731: 2 and H0521: 1.		
HDQEW11	966126	8886	190 - 2	18638		Ser-5 to Thr-11, Cys-21 to Gly-26, Arg-51 to Gly-63.	L0519: 1 and H0521: 1.		
HDQET29	852618	8887	77 - 274	18639		Gly-11 to Lys-22.	H0521: 1 and L0748: 1.		
HDQEQ10	963533	8888	380 - 550	18640		Pro-41 to Thr-48.	L0766: 2, L0545: 1 and H0521: 1.		
HDQEI46	957666	8889	424 - 266	18641			H0521: 1 and L0748: 1.		
HDQEF93	791753	8890	121 - 369	18642		Gly-21 to Val-28.	L0743: 3 and H0521: 1.		
HDQDX89	786323	8891	2 - 709	18643		Gly-16 to Glu-27, Asn-40 to Ser-54, Ser-71 to His-79, Ile-102 to Leu-107, Glu-114 to Gln-120, Gly-127 to Gly-137, Pro-160 to Lys-177, Gln-187 to Thr-199.	L0740: 2 and H0521: 1.		
HDQDT10	963482	8892	432 - 283	18644		Pro-4 to Asp-9.	H0521: 1, L0749: 1 and L0779: 1.		
HDQDG73	761957	8893	209 - 418	18645		Thr-10 to Asn-15, Pro-31 to Pro-42, Pro-47 to Thr-52.	H0521: 1 and L0750: 1.		
HDQDC74	764985	8894	136 - 270	18646		Tyr-21 to Ala-28.	H0521: 1 and L0588: 1.		
HDPYO08	958454	8895	139 - 357	18647			L0384: 1, H0521: 1 and L0779: 1.		
HDPXZ28	686188	8896	462 - 665	18648			L0794: 2, L0770: 1, L0638: 1, L0773: 1, L0804: 1, L0805: 1, H0521: 1, L0745: 1, L0755: 1 and L0731: 1.		
HDPXW88	631353	8897	357 - 187	18649		Cys-3 to His-8, Pro-11 to Gln-21.	L0766: 1 and H0521: 1.		
HDPXO03	923602	8898	375 - 521	18650		Lys-1 to Asn-9.	H0521: 1 and L0748: 1.		

HDPXN01	915919	8899	69 - 230	18651	Ser-48 to Ser-53.	AR089: 9, AR061: 4 L0794: 5, L0439: 2, L0747: 2, H0521: 1, L0779: 1, L0777: 1 and L0594: 1.		
HDPXL71	760140	8900	27 - 275	18652	Ala-21 to Asp-30.	H0521: 1 and L0745: 1.		
HDPXD40	974493	8901	129 - 320	18653	Glu-5 to Cys-16.	H0521: 1		
HDPXD08	958826	8902	124 - 336	18654	Val-2 to Glu-10, Gln-62 to Arg-71.	L0766: 1 and H0521: 1.		
HDPXC56	974490	8903	76 - 564	18655	Gln-2 to Leu-8, Thr-30 to Pro-41.	H0521: 1		
HDPXB75	786320	8904	2 - 382	18656	Glu-61 to Gly-66, Thr-75 to Gln-82.	H0521: 1		
HDPWX53	727595	8905	2 - 301	18657		H0521: 1, L0748: 1 and L0756: 1.		
HDPWT92	791223	8906	331 - 567	18658	Gly-1 to Ser-6, Ser-21 to Ser-37.	H0521: 1 and L0748: 1.		
HDPWR03	923608	8907	261 - 28	18659	Met-20 to Arg-30, Pro-54 to Glu-65.	H0521: 1 and L0752: 1.		
HDPWN56	733129	8908	3 - 425	18660	Arg-24 to Asp-33, Pro-45 to Glu-55, Glu-81 to Gln-102, Leu-111 to Met-120.	H0521: 1 and L0743: 1.		
HDPWK75	793234	8909	36 - 299	18661	Pro-1 to Pro-10.	H0521: 1 and L0754: 1.	20q13.1	256540, 600281, 600281
HDPWH75	956201	8910	34 - 309	18662	Pro-32 to Pro-43.	L0748: 2 and H0521: 1.		
HDPVC01	915816	8911	323 - 595	18663		H0521: 1 and L0759: 1.		
HDPWU82	921279	8912	216 - 91	18664	Gln-22 to Asp-29, Pro-37 to Thr-42.	H0521: 1 and L0439: 1.		
HDPUV65	747646	8913	248 - 538	18665	Lys-10 to Pro-19, Ile-28 to Ala-33.	H0521: 1 and L0439: 1.		
HDPUV11	966558	8914	436 - 618	18666		L0439: 3, L0748: 2 and H0521: 1.		
HDPUR51	914406	8915	233 - 3	18667	Gly-12 to Asn-17, Ala-67 to Lys-77.	L0599: 2, L0766: 1, L0775: 1, L0776: 1, H0521: 1, L0749: 1, L0779: 1, L0777: 1, L0759: 1, L0480: 1 and		

HDPUN39	957580	8916	1819 - 1067	18668	Leu-18 to Ser-24, Pro-46 to Glu-51, Ala-81 to Glu-89.	L0596: 1. AR089: 2, AR061: 1 L0755: 2, L0662: 1 and H0521: 1.		
HDPUI44	715971	8917	53 - 250	18669		L0748: 2, L0749: 2, L0664: 1 and H0521: 1.		
HDPTO65	747206	8918	37 - 294	18670	Thr-72 to Lys-81.	H0521: 1 and L0608: 1.		
HDPTL59	739068	8919	14 - 388	18671	Arg-8 to Gly-17.	H0521: 1 and L0581: 1.		
HDPTL43	715038	8920	192 - 419	18672	Lys-22 to Ser-31.	H0521: 1 and L0599: 1.	3q25-q29	106165, 165500, 222900, 276902
HDPTD58	735750	8921	298 - 462	18673		H0521: 1 and L0748: 1.		
HDPSW93	973098	8922	103 - 330	18674	Trp-2 to Ser-9.	H0521: 1		
HDPSW82	779614	8923	25 - 417	18675	Gln-7 to Gln-15, Arg-61 to Cys-75, Ser-82 to His-92.	L0749: 2 and H0521: 1.		
HDPSL71	969286	8924	157 - 294	18676	Thr-18 to Gly-23, Val-27 to Gly-32.	L0648: 1, L0803: 1, L0774: 1, L0659: 1, L0665: 1, H0521: 1 and L0758: 1.	1q22-q24	104770, 107300, 107670, 110700, 131210, 136132, 145001, 146790, 159440, 159440, 159440, 173610, 186780, 191030, 191315, 600923, 601412, 601518, 601652, 602491
HDPSK64	746370	8925	1 - 633	18677	Arg-13 to Ser-30, Thr-40 to Asp-52.	H0521: 1 and L0749: 1.		
HDPSK53	727586	8926	1 - 474	18678	Leu-25 to Gln-32, Ile-48 to Glu-53, Glu-69 to Cys-78.	L0601: 2 and H0521: 1.		
HDPSI13	656729	8927	257 - 394	18679		H0521: 1 and L0748: 1.		
HDPSB10	961309	8928	1 - 444	18680	Met-14 to Pro-24, Lys-31 to Glu-36, His-70 to Gly-76.	AR089: 1, AR061: 0 L0665: 1 and H0521: 1.		
HDPSA86	785293	8929	452 - 219	18681		H0521: 1 and L0439: 1.		
HDPRW01	915993	8930	91 - 294	18682	Gly-1 to Ser-6,	H0521: 1 and L0731: 1.		

HDP RS89	887682	8931	3 - 341	18683	Gln-23 to Ser-38, Asn-54 to Lys-63, Thr-69 to Phe-74, Trp-98 to Ser-108.	AR050: 58, AR054: 55, AR051: 47 H0521: 1		
HDP RR24	914667	8932	111 - 410	18684	Asn-65 to Arg-71.	H0521: 1 and L0745: 1.		
HDP RK07	948672	8933	12 - 158	18685	Arg-1 to Thr-11, Ser-19 to Leu-25.	L0766: 1, H0521: 1 and L0779: 1.		
HDP RJ04	909040	8934	3 - 419	18686	Lys-21 to His-27, Phe-44 to Arg-55, Lys-72 to Lys-80, Glu-88 to Thr-94.	AR089: 0, AR061: 0 H0521: 1 and L0758: 1.		
HDP RE41	712124	8935	378 - 232	18687	His-20 to Thr-25.	H0521: 1 and L0754: 1.		
HDP RA51	725103	8936	2 - 175	18688	Arg-27 to Ser-32.	H0521: 1		
HDP QV82	779421	8937	13 - 327	18689	Gly-5 to Gly-11, Lys-38 to Lys-43.	H0522: 1 and L0748: 1.		
HDP QR07	952337	8938	500 - 604	18690		H0522: 1 and L0779: 1.		
HDP QI68	955006	8939	14 - 508	18691	Glu-42 to Asp-47, Gly-54 to Gly-61, Pro-67 to Asn-73, Lys-145 to Asn-151.	L0752: 2, L0659: 1, H0522: 1 and L0779: 1.		
HDP QH06	934616	8940	66 - 275	18692	Arg-12 to Arg-20, Phe-34 to Lys-45, Pro-65 to Asp-70.	L0794: 1 and H0522: 1.		
HDP QF03	923120	8941	5 - 748	18693		AR054: 9, AR050: 7, AR051: 2 L0769: 1, H0522: 1, L0744: 1 and L0754: 1.		
HDP QC63	744461	8942	18 - 302	18694	Asn-16 to Arg-21, Arg-35 to Ile-41.	H0522: 1 and L0748: 1.		
HDP QA64	872237	8943	3 - 266	18695	Pro-6 to Arg-19, Pro-25 to Cys-30, Pro-33 to Arg-40.	H0522: 1 and L0596: 1.		
HDP PP29	690497	8944	138 - 1	18696	Ser-30 to Gly-45.	H0522: 1 and L0759: 1.		
HDP PB17	662917	8945	1 - 387	18697	Pro-17 to Gly-34, Asp-59 to Val-72, His-77 to Asp-87.	H0522: 1 and L0740: 1.		

HDPOX03	923856	8946	320 - 132	18698	Ser-107 to Thr-121.	H0522: 1 and L0749: 1.	
HDPOX03	923856	8946	320 - 132	18698	Asn-9 to Asn-15.	H0522: 1 and L0749: 1.	
HDPOX03	773487	8947	223 - 456	18699	Ser-1 to Tyr-7, Tyr-19 to Val-25, Leu-30 to Thr-35, Ile-47 to Asn-56, Ile-68 to His-75.	L0753: 2, H0522: 1, L0740: 1 and L0750: 1.	
HDPOX03	923843	8948	185 - 439	18700	Thr-10 to Tyr-15, Gly-66 to Ile-81.	H0522: 1 and L0756: 1.	
HDPOX03	919597	8949	344 - 631	18701	Arg-16 to Gly-22.	L0439: 2, H0522: 1, L0779: 1 and L0731: 1.	
HDPOX03	764407	8950	1 - 228	18702	Val-1 to Ser-12, Ser-18 to Arg-23.	H0522: 1 and L0603: 1.	
HDPOX03	607575	8951	323 - 165	18703	Arg-20 to Asp-25, Gly-37 to Val-47.	H0522: 1	
HDPOX03	874076	9733	308 - 18	19485	Pro-8 to Arg-13, Thr-39 to Gln-48.		
HDPOX03	897723	9734	425 - 291	19486	Glu-22 to Cys-28, Leu-40 to Lys-45.		
HDPOX03	674539	8952	407 - 715	18704	Glu-1 to Glu-6, Asp-11 to Gln-18, Pro-20 to Tyr-25, Pro-27 to Lys-38.	L0748: 6, L0749: 2, H0522: 1 and L0752: 1.	
HDPMV35	706647	8953	191 - 349	18705		H0522: 1 and L0752: 1.	
HDPMR81	493958	8954	422 - 189	18706	Ala-1 to Pro-11, Lys-18 to Leu-31, Met-59 to Arg-64.	H0522: 1	
HDPMR81	584265	9735	1 - 282	19487	Thr-2 to Glu-9, Ser-11 to Lys-16, Ile-65 to Arg-77.		
HDPMH51	725029	8955	3 - 224	18707	Asn-14 to Tyr-22, Lys-44 to Ser-50.	L0746: 3, H0522: 1 and L0748: 1.	
HDPMG46	934144	8956	274 - 2	18708		H0522: 1 and L0780: 1.	
HDPLV29	849526	8957	224 - 439	18709	Glu-35 to Tyr-46.	L0766: 2 and H0521: 1.	
HDPLU84	782061	8958	163 - 318	18710	Lys-9 to Gln-14, Thr-40 to Cys-49.	H0521: 1 and L0748: 1.	



HDPLT62	973945	8959	405 - 809	18711		AR089: 1, AR061: 0 H0521: 1		
HDPKI78	773469	8960	19 - 126	18712		H0521: 1 and L0749: 1.		
HDPKA03	923841	8961	267 - 407	18713		L0740: 4, L0777: 2, L0803: 1 and H0521: 1.		
HDPJX07	952966	8962	350 - 574	18714	Gly-2 to Gln-12, Asp-68 to Asp-73.	L0769: 1, L0803: 1, H0521: 1 and L0758: 1.		
HDPJP44	716466	8963	91 - 360	18715	Asp-43 to Cys-50.	L0803: 7, L0794: 5, L0804: 5, L0775: 3, L0789: 2, L0805: 1, L0776: 1, L0809: 1, H0521: 1, L0747: 1, L0779: 1 and L0758: 1.		
HDPJK23	488326	8964	2 - 355	18716	Lys-74 to Arg-80.	H0521: 1 and L0757: 1.		
HDPJB19	887886	8965	3 - 293	18717	Gln-12 to Lys-19.	AR050: 112, AR051: 76, AR054: 75 H0521: 1		
HDPJA07	953001	8966	46 - 243	18718	Ser-2 to Ser-10.	H0521: 1 and L0745: 1.		
HDPJW95	933240	8967	181 - 774	18719	Gln-66 to Asn-71, Ala-130 to Gln-135, Leu-137 to Asn-144, Thr-154 to Ser-163.	L0779: 2, H0521: 1, L0745: 1 and L0758: 1.		
HDPJIV34	703959	8968	328 - 489	18720	Thr-9 to Asn-19.	H0521: 1 and L0754: 1.		
HDPJQ24	771939	8969	141 - 485	18721	Arg-17 to Gly-23, Ala-37 to Ser-46, His-78 to Leu-85, Ser-103 to Lys-110.	H0521: 1 and L0595: 1.		
HDPJP06	935198	8970	444 - 569	18722		H0521: 1 and L0748: 1.		
HDPJL73	764344	8971	34 - 213	18723	Phe-1 to Thr-7, Gly-46 to Leu-59.	H0521: 1		
HDPJL01	916221	8972	206 - 343	18724	Gly-19 to His-27.	H0521: 1		
HDPJF78	881960	8973	130 - 360	18725		H0521: 1		
HDPJF66	750575	8974	51 - 443	18726	Cys-48 to Gln-60, Gln-78 to Gln-86.	H0521: 1	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238.

									601846, 602216, 602477
HDPHF54	729441	8975	239 - 469	18727		Pro-7 to Thr-12, Thr-17 to Thr-26.		H0521: 1 and L0439: 1.	
HDPID88	415993	8976	2 - 241	18728		Ser-1 to Leu-17, Gln-22 to Gly-29, Cys-32 to Trp-39, Ser-45 to Ser-64.		H0521: 1	
HDPID53	728058	8977	222 - 401	18729		Ala-19 to Glu-26.		H0521: 1	
HDPID21	827350	8978	1 - 192	18730				H0521: 1	
HDPHF37	706622	8979	54 - 209	18731				H0521: 1	
HDPHA89	786078	8980	111 - 437	18732		Glu-12 to Gln-17, Lys-25 to His-35.		L0745: 2, H0521: 1, L0741: 1 and L0746: 1.	
HDPHA40	711126	8981	1 - 162	18733		Pro-4 to Arg-12, Leu-30 to Thr-36.		H0521: 1 and L0749: 1.	
HDPHA37	812336	8982	2 - 508	18734		Gln-14 to Gly-20, Pro-35 to Gly-42, Leu-55 to Pro-62, Gln-92 to Asp-104, Ser-130 to Lys-136, Lys-145 to Ala-153, His-155 to Thr-161.		H0521: 1	
HDPHA34	704036	8983	264 - 512	18735				H0521: 1 and L0748: 1.	
HDPGX15	660089	8984	43 - 315	18736				H0521: 1	
HDPGX10	964519	8985	419 - 550	18737				L0766: 1 and H0521: 1.	
HDPGX03	924010	8986	242 - 388	18738				H0521: 1	
HDPGT96	973363	8987	1 - 237	18739		His-20 to Asp-26.		H0521: 1	
HDPGS93	792256	8988	239 - 466	18740		Phe-21 to Gly-37, Leu-63 to Asn-76.		H0521: 1	
HDPGS45	921381	8989	24 - 236	18741				L0748: 3 and H0521: 1.	
HDPGS43	715232	8990	39 - 212	18742		Arg-15 to Pro-21, Gln-44 to Ala-57.		L0794: 1, L0766: 1, H0521: 1, L0750: 1, L0777: 1 and L0759: 1.	
HDPGS16	909833	8991	188 - 460	18743		Asp-40 to Leu-46, Phe-50 to Arg-61, Pro-76 to Asp-83.		AR061: 0, AR089: 0 H0521: 1 and L0758: 1.	

HDPGS01	916352	8992	58 - 204	18744	Pro-6 to Gly-13.	H0521: 1	
HDPGR44	468389	8993	1 - 225	18745	Gly-1 to Ile-10, Pro-22 to Gly-27.	H0521: 1	
HDPGN15	394693	8994	195 - 389	18746	Pro-20 to His-25, Arg-55 to Cys-61.	H0521: 1	
HDPGN13	416046	8995	1 - 147	18747	Gly-27 to Asn-32, Gly-42 to Pro-49.	H0521: 1	
HDPGN11	966923	8996	300 - 166	18748		L0766: 1 and H0521: 1.	
HDPGJ49	722903	8997	119 - 310	18749		H0521: 1 and L0748: 1.	
HDPGI75	766618	8998	156 - 302	18750	Arg-18 to Gln-24.	H0521: 1	
HDPGI74	765524	8999	87 - 209	18751	Pro-18 to Lys-35.	H0521: 1	
HDPGH73	764397	9000	2 - 118	18752	Glu-6 to Gly-11, Lys-18 to Ile-32.	H0521: 1	
HDPGG01	916389	9001	282 - 115	18753		H0521: 1 and L0604: 1.	
HDPGD28	879489	9002	223 - 441	18754	Phe-19 to Asp-28.	H0521: 1, L0748: 1 and L0749: 1.	
HDPFZ70	709684	9003	482 - 775	18755	Leu-40 to Gly-93.	AR054: 199, AR051: 196, AR050: 193, AR089: 22, AR061: 4 H0521: 1	
	872273	9736	289 - 522	19488			
HDPFW02	919306	9004	211 - 2	18756	Ala-60 to Gly-70.	H0521: 1	
HDPFS71	486744	9005	481 - 329	18757		H0521: 1	
HDPFS59	486737	9006	65 - 196	18758	Lys-38 to His-43.	H0521: 1	
HDPFP96	796360	9007	116 - 226	18759	Gly-1 to Lys-6, Phe-9 to Thr-17, Lys-27 to Thr-33.	H0521: 1 and L0581: 1.	
HDPFP71	760327	9008	374 - 655	18760	Thr-10 to Cys-17, His-39 to Gly-46, Arg-58 to Ser-71.	L0747: 2 and H0521: 1.	
HDPFP14	486765	9009	127 - 321	18761		H0521: 1	
	495698	9737	446 - 279	19489	Ser-18 to Thr-25, Pro-35 to Ser-40.		
HDPFN23	486738	9010	315 - 455	18762		H0521: 1	
	495721	9738	346 - 149	19490	Ala-1 to Glu-16, Pro-37 to Ala-45,		

HDPFM28	486766	9011	1 - 243	18763	Pro-47 to Lys-54. Ser-5 to Ser-14, Ser-34 to Gly-45, Gly-51 to Cys-56.	H0521: 1		
HDPFL52	495724	9739	477 - 223	19491	His-17 to Cys-22.	H0521: 1		
	486739	9012	43 - 198	18764	Lys-1 to Lys-7.			
	495697	9740	195 - 1	19492	Pro-45 to Arg-54, Asp-60 to Pro-65.			
HDPFI58	783957	9013	229 - 74	18765	Ile-87 to Ile-94.	H0521: 1 and L0750: 1.		
HDPFD10	964521	9014	270 - 632	18766		H0521: 1, L0777: 1 and L0759: 1.		
HDPFB03	936331	9015	326 - 607	18767	Tyr-12 to Gly-17, Tyr-75 to Asp-81.	L0776: 1, H0521: 1 and L0748: 1.		
HDPDH08	959303	9016	155 - 352	18768		H0521: 1 and L0588: 1.		
HDPDD12	970592	9017	379 - 164	18769	Thr-30 to Asn-35.	L0770: 11, L0775: 1, L0787: 1, L0666: 1 and H0521: 1.		
HDPDC90	590161	9018	101 - 241	18770	Val-3 to Tyr-17.	H0521: 1		
	950991	9741	564 - 785	19493				
HDP CY47	775412	9019	2 - 358	18771		H0521: 1 and L0750: 1.		
HDP CP89	786075	9020	2 - 175	18772	Ala-1 to Arg-6, Thr-30 to Ser-43.	H0521: 1		
HDP CP64	746527	9021	138 - 332	18773		H0521: 1		
HDP CP48	721620	9022	317 - 418	18774		H0521: 1		
HDP CP46	719014	9023	210 - 356	18775		H0521: 1		
HDP CP43	715227	9024	198 - 446	18776	Pro-1 to Asn-6, Asp-19 to Lys-35.	H0521: 1		
HDP CP16	416032	9025	263 - 421	18777		H0521: 1		
HDP CO12	852847	9026	80 - 310	18778		H0521: 1		
HDP CN88	416035	9027	219 - 365	18779	Lys-28 to Thr-33.	H0521: 1		
HDP CN73	764400	9028	1 - 138	18780		H0521: 1		
HDP CN33	416028	9029	169 - 351	18781		H0521: 1		
HDP CM66	852849	9030	50 - 472	18782	Thr-6 to Gly-11, Pro-29 to Met-40.	H0521: 1	16q12-q13	114835, 132700, 172490, 600968

HDP6M62	454740	9031	137 - 382	18783	His-1 to Asn-12, Pro-14 to Pro-27, Asn-33 to Ser-39, Pro-41 to Asn-46, Pro-74 to Pro-82.	AR061: 159, AR089: 121 H0521: 1	Ip34.1-p32	120550, 120570, 120575, 120950, 120960, 121800, 130500, 133200, 138140, 171760, 171760, 178300, 187040, 255800, 600101, 600650, 600650, 600722, 600722
HDP6I45	974424	9032	221 - 382	18784		H0521: 1		
HDP6H85	973314	9033	7 - 222	18785		H0521: 1		
HDP6CG33	495711	9034	509 - 330	18786	Gly-3 to Asn-15.	H0521: 1		
	852850	9742	8 - 190	19494	Gln-29 to Tyr-45.			
	852872	9743	122 - 304	19495				
HDP6CB67	878776	9035	3 - 299	18787	Glu-11 to Ala-20, Gly-74 to Pro-80.	H0521: 1 and L0747: 1.		
HDP6BQ75	466645	9036	1 - 429	18788	Glu-22 to Asp-29, Asp-53 to Ser-63, Met-95 to Arg-104, Thr-115 to Asn-126.	H0521: 1 and L0600: 1.		
HDP6BP64	746537	9037	3 - 218	18789	Ile-2 to Gln-7, Val-37 to Lys-44, Lys-38 to Ser-64.	H0521: 1 and L0439: 1.		
HDP6BI31	852885	9038	400 - 546	18790		H0521: 1 and L0751: 1.		
HDP6BF15	852880	9039	189 - 28	18791	Thr-18 to Ile-37.	H0521: 1 and L0751: 1.		
HDP6BE85	783544	9040	3 - 224	18792	Cys-27 to Asn-41.	L0748: 4 and H0521: 1.		
HDP6AX21	670893	9041	278 - 418	18793		H0521: 1 and L0599: 1.		
HDP6AV46	719027	9042	103 - 291	18794	Glu-22 to Thr-27, Pro-38 to Thr-43, Lys-52 to Gln-57.	H0521: 1 and L0596: 1.		
HDP6AP04	615193	9043	128 - 370	18795		H0521: 1 and L0748: 1.		
HDP6AO68	972332	9044	1054 - 752	18796	Lys-28 to Ser-38, Arg-51 to Gly-64.	AR061: 30, AR089: 13 H0521: 1		
	746550	9045	305 - 457	18797		H0521: 1 and L0439: 1.	9q13-q21	190100, 200150, 229300, 229300,

HDPAN94	901123	9046	242 - 463	18798			AR050: 3, AR051: 2, AR054: 0 H0521: 1		600429, 600884, 600974, 600998, 602014
HDPK09	494170	9047	143 - 48	18799		Arg-3 to Gly-16.	H0521: 1		
	852903	9744	321 - 464	19496					
HDPJ64	881654	9048	46 - 324	18800		Cys-38 to Pro-44, Glu-50 to Ser-56.	H0521: 1		
HDPAH17	663779	9049	122 - 331	18801		His-57 to Glu-63.	L0748: 2, L0747: 2, H0521: 8q 1 and L0749: 1.		
HDPAF40	856391	9050	442 - 567	18802			L0599: 2 and H0521: 1.		
HDPAC90	787296	9051	1 - 216	18803			L0605: 2, H0521: 1, L0748: 1, L0745: 1 and L0747: 1.		
HDPAC78	773570	9052	109 - 213	18804			H0521: 1 and L0748: 1.		
HDPAB34	581900	9053	358 - 2	18805		Cys-72 to Thr-79, Thr-105 to Gly-119.	H0521: 1		
	959495	9745	2 - 169	19497					
	959496	9746	1 - 39	19498					
HDPAA80	775417	9054	89 - 310	18806			H0521: 1 and L0748: 1.		
HDPAA38	546575	9055	184 - 2	18807		Lys-51 to Gly-61.	H0521: 1		
HDLBE11	966230	9056	109 - 2	18808		Thr-1 to Gly-6, Gln-13 to Phe-20.	H0485: 1 and L0751: 1.		
HDLAX74	765091	9057	277 - 516	18809		Gly-1 to Gln-8, Leu-17 to Cys-26, Pro-38 to Gln-47, Ser-59 to Gly-66.	L0753: 3 and H0485: 1.		
HDLAX52	726241	9058	615 - 794	18810			H0485: 1 and L0731: 1.	10q	
HDLAW58	735559	9059	111 - 395	18811		Asn-78 to Tyr-83.	H0485: 1 and L0759: 1.		
HDLAV11	852919	9060	122 - 256	18812			H0485: 1 and L0766: 1.		
HDLAG57	565105	9061	211 - 441	18813		Arg-9 to Gly-20.	H0485: 1		
HDLAC67	751699	9062	1 - 141	18814		Asn-14 to Ile-19.	H0485: 1		
HDLACS1	799888	9063	261 - 428	18815		Leu-20 to Asn-25, Leu-41 to Asn-51.	H0485: 1		
HDLAC30	799891	9064	3 - 209	18816		Asp-1 to Arg-18.	H0485: 1		

HDLA58	736081	9065	297 - 491	18817			H0485: 1		
HDCBF12	969401	9066	1 - 189	18818	Ser-16 to Ser-21.		H0637: 1 and L0658: 1.		
HDCBD07	951948	9067	1 - 180	18819	Phe-6 to Thr-11.		H0637: 1 and L0666: 1.		
HDCAN06	933818	9068	3 - 176	18820			H0637: 1 and L0601: 1.		
HDCAG61	852968	9069	80 - 298	18821			H0637: 1 and L0518: 1.		
HDBAK09	625387	9070	316 - 546	18822	Asn-6 to Arg-11.		H0578: 1 and L0755: 1.		
HDBAA11	966723	9071	283 - 459	18823	Leu-3 to Gln-9.		L0717: 1 and H0578: 1.		
HCWWH01	915420	9072	78 - 194	18824			H0589: 1 and L0753: 1.		
HCWVA80	974488	9073	1 - 135	18825	Glu-1 to Gln-22.		H0589: 1		
HCWUS57	974462	9074	104 - 433	18826	Leu-28 to Ser-33, Thr-57 to Lys-63, Lys-75 to Trp-84, Thr-94 to Gly-103.		H0589: 1		
HCWUS50	974467	9075	328 - 516	18827	His-26 to Gln-39, Leu-53 to Tyr-61.		H0589: 1		
HCWUQ81	853002	9076	285 - 518	18828	Val-10 to Gly-15.		H0589: 1 and L0748: 1.		
HCWUQ10	964080	9077	1 - 207	18829	Ser-31 to Gly-45, Glu-60 to Asn-65.		H0589: 1, L0775: 1 and L0758: 1.		
HCWUP62	743064	9078	218 - 430	18830			H0589: 1, L0743: 1 and L0744: 1.		
HCWUM01	974466	9079	1 - 243	18831	His-71 to Pro-77.		H0589: 1		
HCWUL35	706530	9080	69 - 191	18832	Ala-7 to His-12.		L0777: 2 and H0589: 1.		
HCWUI49	722674	9081	152 - 367	18833	Glu-16 to Arg-21, Pro-35 to Ala-41.		H0589: 1 and L0596: 1.		
HCWTP17	662486	9082	16 - 225	18834	Ser-23 to Lys-29, Ser-55 to Asp-68.		H0589: 1 and L0740: 1.		
HCWTL02	919252	9083	99 - 308	18835	Leu-2 to Ser-9.		H0589: 1 and L0759: 1.		
HCWSC38	706523	9084	194 - 547	18836	Ala-6 to Leu-11, Leu-70 to Ser-83.		H0305: 1 and L0758: 1.		
HCWLA43	927571	9085	130 - 324	18837			H0305: 1 and L0748: 1.		
HCWKT71	888167	9086	2 - 322	18838	Thr-7 to Ser-35.		AR050: 1, AR051: 1, AR054: 1 H0305: 1		
HCWKS70	757172	9087	44 - 142	18839	Thr-14 to Gln-25.		H0305: 1		
HCWKS35	706518	9088	147 - 332	18840	Phe-1 to Leu-6.		H0305: 1		

HCWKR86	784705	9089	263 - 376	18841	Gln-32 to Gly-38.	H0305: 1		
HCWKR85	783555	9090	138 - 284	18842	Arg-6 to Leu-13, Cys-20 to His-27, Lys-41 to Pro-47.	H0305: 1		
HCWKR62	742602	9091	121 - 255	18843	Leu-21 to Gly-26, Ser-35 to Cys-42.	H0305: 1		
HCWKR51	725027	9092	79 - 225	18844		H0305: 1		
HCWKR14	658421	9093	128 - 334	18845	Ser-8 to Pro-19.	H0305: 1		
HCWKQ09	625346	9094	57 - 314	18846	Gln-39 to Trp-47.	H0305: 1, L0748: 1 and L0749: 1.		
HCWKI72	760628	9095	62 - 169	18847		H0305: 1 and L0741: 1.		
HCWKD85	783545	9096	38 - 202	18848	Arg-26 to Ile-36.	H0305: 1 and L0757: 1.		
HCWKC61	741803	9097	2 - 241	18849	Lys-1 to Ser-16, Arg-24 to Ser-32, Glu-49 to Asp-58, Ala-67 to Thr-74.	L0748: 2, L0749: 2 and H0305: 1.		
HCWHN53	728248	9098	148 - 345	18850		H0305: 1 and L0731: 1.		
HCWHF76	838528	9099	448 - 693	18851	Lys-1 to Trp-10, Cys-34 to His-41, Thr-48 to Glu-62.	AR051: 31, AR050: 26, AR054: 20 H0305: 1		
HCWGY56	732688	9100	99 - 230	18852		H0305: 1 and L0748: 1.		
HCWGU65	747198	9101	535 - 116	18853		H0305: 1		
	747199	9747	86 - 301	19499	Ser-11 to Cys-20, Leu-27 to Val-36.			
HCWGR02	920121	9102	1 - 291	18854	Ile-1 to Asp-7.	H0305: 1, L0803: 1 and L0599: 1.		
HCWGE86	974476	9103	348 - 530	18855		H0305: 1		
HCWGE85	783528	9104	238 - 360	18856	Pro-34 to Gln-39.	H0305: 1 and L0749: 1.		
HCWGA64	746153	9105	30 - 152	18857		H0305: 1		
HCWVF07	953582	9106	32 - 430	18858	Asn-14 to Glu-22, Arg-30 to Ala-37, Ser-45 to Gly-74.	H0305: 1, L0779: 1 and L0758: 1.		
HCWUF40	710419	9107	49 - 291	18859		H0305: 1 and L0777: 1.		
HCWFM44	716726	9108	108 - 584	18860	Arg-2 to His-13.	L0754: 2, H0305: 1 and L0748: 1.	19q13.2	107741, 113900, 122720, 122720, 126340, 126391,



HCWFK37	800389	9109	128 - 304	18861	Pro-19 to Gln-25, Lys-45 to Leu-52.	AR050: 18, AR054: 12, AR051: 8 H0305: 1	160900, 164731, 173850, 207750, 248600, 258501
HCWFI71	489879	9110	2 - 328	18862	Thr-78 to Ala-86, Pro-98 to Gln-109.	H0305: 1	
HCWFE35	722467	9111	2 - 370	18863	Arg-1 to Arg-6.	L0740: 2, H0305: 1, L0157: 1 and L0755: 1.	
HCWFA63	578898	9112	1 - 237	18864	Gly-6 to Glu-14, Cys-24 to Phe-29.	H0305: 1	
HCWFA51	584725	9113	1 - 234	18865	Gly-6 to Glu-14, Cys-24 to Phe-29.	H0305: 1	
HCWFA35	908820	9114	50 - 364	18866	Lys-19 to Thr-26.	AR089: 13, AR061: 6 H0305: 1	
HCWFA27	578899	9115	86 - 349	18867	Gln-2 to Ser-7, Leu-20 to Lys-26.	H0305: 1	
HCWFA03	921938	9116	244 - 381	18868		H0305: 1	
HCWEW92	573389	9117	1 - 129	18869	Leu-20 to Thr-34.	H0305: 1	
HCWEW68	849928	9118	125 - 268	18870	Ala-29 to Glu-39.	H0305: 1	
HCWES28	685585	9119	2 - 127	18871		H0305: 1	
HCWER13	586984	9120	29 - 187	18872		H0305: 1	
HCWEQ61	741989	9121	2 - 301	18873	Glu-26 to Gln-31, Lys-41 to Glu-50.	H0305: 1, L0748: 1 and L0749: 1.	
HCWEH95	795046	9122	151 - 276	18874	Arg-1 to Trp-6, Cys-13 to Arg-19.	H0305: 1 and L0748: 1.	
HCWDO74	576471	9123	3 - 206	18875		H0305: 1	
HCWDO26	576470	9124	40 - 147	18876		H0305: 1	
HCWDJ81	514607	9125	278 - 144	18877		H0305: 1	
	588502	9748	11 - 343	19500			
	623460	9749	99 - 326	19501	Pro-35 to Thr-40, Trp-51 to Ser-58.		
HCWCR40	711507	9126	176 - 316	18878	Phe-3 to Lys-8, Ser-15 to Val-22.	L0766: 2, H0305: 1 and L0745: 1.	
HCWCN11	849959	9127	717 - 896	18879		L0766: 2, L0748: 2 and	

HCWCM08	849958	9128	122 - 340	18880			H0305: 1.		
HCWCL46	719244	9129	240 - 410	18881		Gly-11 to Lys-16.	H0305: 1 H0305: 1, L0766: 1 and L0777: 1.		
HCWC16	411336	9130	175 - 465	18882		Thr-72 to Tyr-79.	H0305: 1, L0774: 1 and L0465: 1.		
	514257	9750	549 - 355	19502		Ser-1 to Gly-10.	H0305: 1		
HCWC185	840121	9131	210 - 389	18883					
HCWCH85	753191	9132	102 - 257	18884		Ser-1 to Arg-9, Leu-13 to Gly-25, Pro-31 to Ile-36.	H0305: 1 and L0766: 1.		
HCWCH11	967666	9133	172 - 291	18885		Tyr-3 to Ser-10.	H0305: 1, L0109: 1, L0749: 1, L0779: 1 and L0599: 1.		
HCWBM07	954100	9134	108 - 467	18886		Tyr-17 to Ala-33, Pro-58 to Asp-63, Arg-89 to Asp-94, Ala-97 to Pro-104.	L0748: 11 and H0305: 1.		
HCWAN45	728385	9135	236 - 60	18887		Arg-42 to Asp-59.	H0305: 1		
	889047	9751	11 - 223	19503					
HCWA153	586997	9136	67 - 300	18888		Val-4 to Lys-13.	H0305: 1		
HCWAB85	783392	9137	180 - 311	18889		Pro-1 to Val-7.	H0305: 1		
HCWAB72	766288	9138	56 - 211	18890			H0305: 1		
HCWAB49	529659	9139	2 - 64	18891		Thr-3 to His-12.	H0305: 1		
HCWAB37	575491	9140	56 - 190	18892		Ala-18 to Trp-31, Thr-33 to Ser-38.	H0305: 1		
HCWAB36	529660	9141	98 - 244	18893		Tyr-1 to Asp-17, Trp-37 to Cys-44.	H0305: 1		
HCWAB35	416968	9142	1 - 201	18894		Ser-12 to Ser-17.	H0305: 1		
HCWAB25	575270	9143	21 - 137	18895		Arg-6 to Leu-13.	H0305: 1		
HCWAB23	529664	9144	2 - 241	18896		His-45 to Gln-53, Pro-56 to Thr-74.	H0305: 1 and L0789: 1.		
HCVAC86	785784	9145	27 - 227	18897		Leu-7 to Leu-13.	H0300: 1		
HCVAC80	529688	9146	143 - 316	18898			H0300: 1		
HCVAC73	529687	9147	2 - 226	18899		Pro-53 to Trp-62.	H0300: 1		
HCVAC72	529693	9148	39 - 260	18900			H0300: 1		

HCVAC70	507284	9149	115 - 354	18901	Gly-9 to Ser-17, Thr-51 to Thr-57.	H0300: 1 and L0604: 1.		
HCVAC58	575510	9150	2 - 202	18902	Ser-16 to Ala-22, Lys-61 to Gln-67.	H0300: 1		
HCVAC47	861969	9151	168 - 326	18903	Ala-1 to Trp-8,	H0300: 1	12	
HCVAC45	529691	9152	2 - 289	18904	Glu-22 to Leu-28, Leu-32 to Pro-55, Arg-64 to Asp-69, Glu-73 to Leu-79.	H0300: 1	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777
HCVAC38	529692	9153	209 - 319	18905		H0300: 1		
HCVAC33	529694	9154	191 - 331	18906		H0300: 1		
HCVAC26	529698	9155	69 - 290	18907	Pro-15 to Arg-20.	H0300: 1		
HCVAC21	529695	9156	55 - 222	18908	Met-1 to Ser-6.	H0300: 1		
HCVAC19	879694	9157	3 - 197	18909		H0300: 1		
HCUIO06	934889	9158	229 - 372	18910	Ser-24 to Asp-37.	H0402: 1		
HCUIM28	849998	9159	2 - 409	18911	Pro-16 to Thr-29, Pro-45 to Ala-53, Pro-72 to Trp-77, Pro-101 to Ser-107.	H0402: 1 and L0759: 1.		
HCUIK74	765645	9160	50 - 292	18912		L0750: 2 and H0402: 1.		
HCUHY13	657297	9161	120 - 386	18913		H0402: 1 and L0361: 1.		
HCUHY10	964727	9162	60 - 224	18914		H0402: 1 and L0748: 1.		
HCUHU61	850008	9163	183 - 395	18915	Glu-8 to Arg-15.	H0402: 1 and L0717: 1.		
HCUHU54	730739	9164	200 - 367	18916		H0402: 1 and L0754: 1.		
HCUHT92	792756	9165	3 - 206	18917	Asn-20 to Cys-25, Asn-30 to Ala-38.	H0402: 1 and L0748: 1.		
HCUHT74	765641	9166	113 - 256	18918	Asp-1 to Glu-8.	H0402: 1		
HCUHT37	575794	9167	87 - 200	18919	Asn-8 to Thr-31, Leu-33 to Trp-38.	H0402: 1		
HCUHT26	681874	9168	2 - 118	18920		H0402: 1		
HCUHT13	657295	9169	17 - 217	18921	Asn-11 to Lys-16.	H0402: 1		
HCUHT03	924494	9170	130 - 282	18922	Glu-37 to Gly-44.	L0748: 2 and H0402: 1.		
HCUHS21	670988	9171	247 - 423	18923		H0402: 1 and L0748: 1.		
HCUHO27	690027	9172	28 - 177	18924		L0731: 3, L0768: 2, H0402:		

HCUHO13	879921	9173	515 - 276	18925			1, L0659: 1 and L0759: 1.		
HCUHK11	967142	9174	180 - 410	18926			H0402: 1		
HCUHH95	941943	9175	1411 - 1061	18927			H0402: 1, L0717: 1 and L0612: 1.		
HCUHH04	927500	9176	3 - 566	18928			H0402: 1		
HCUHG67	751673	9177	563 - 760	18929			L0777: 2 and H0402: 1.		
HCUGT86	784694	9178	133 - 312	18930			H0402: 1 and L0468: 1.		
HCUGS67	751669	9179	328 - 450	18931			H0402: 1 and L0596: 1.		
HCUGO07	953412	9180	122 - 262	18932			H0402: 1 and L0518: 1.		
HCUGN19	716989	9181	35 - 382	18933			AR089: 7, AR061: 2 L0744: 3, L0766: 2, H0402: 1 and L0754: 1.		
HCUGM93	792329	9182	5 - 262	18934			H0402: 1 and L0748: 1.		
HCUGM64	745853	9183	193 - 330	18935			H0402: 1 and L0747: 1.		
HCUGL20	668913	9184	112 - 303	18936			H0402: 1 and L0748: 1.		
HCUGL01	916550	9185	1 - 162	18937			L0785: 1 and H0402: 1.		
HCU GK86	785517	9186	164 - 301	18938			H0402: 1		
HCU GK85	783521	9187	3 - 329	18939			H0402: 1		
HCU GK78	773601	9188	69 - 227	18940			H0402: 1		
HCU GK64	746604	9189	3 - 137	18941			H0402: 1		
HCU GK54	730709	9190	3 - 116	18942			H0402: 1		
HCU GK51	725013	9191	2 - 178	18943			H0402: 1		
HCU GK38	706479	9192	19 - 174	18944			H0402: 1		
HCU GK25	678130	9193	1 - 165	18945			H0402: 1		
HCU GK18	666454	9194	110 - 259	18946			H0402: 1		
HCU GK17	424102	9195	34 - 204	18947			H0402: 1		
HCU GK14	657539	9196	2 - 265	18948			H0402: 1 and L0662: 1.		
HCU GK05	932078	9197	3 - 125	18949			H0402: 1		
ICUGI64	746608	9198	2 - 283	18950			H0402: 1		
HCU GH79	775206	9199	178 - 279	18951			H0402: 1		

HCUGH64	746600	9200	35 - 133	18952	Leu-19 to Lys-24. Met-1 to Trp-7, Arg-20 to Gln-33.	H0402: 1		
HCUGH52	726052	9201	67 - 183	18953		H0402: 1		
HCUGH44	716624	9202	1 - 60	18954		H0402: 1		
HCUGH42	713782	9203	89 - 274	18955	Lys-1 to Lys-6.	H0402: 1		
HCUGD30	850041	9204	178 - 432	18956	Glu-7 to Gln-14.	L0777: 2, L0599: 2, H0402: 1 and L0369: 1.		
HCUGC25	464029	9205	27 - 287	18957	Gly-67 to Glu-73, Val-82 to Tyr-87.	H0402: 1 and L0740: 1.		
HCUGB93	850043	9206	2 - 187	18958	Tyr-40 to Gln-45.	H0402: 1		
HCUGB58	736092	9207	30 - 113	18959	Lys-19 to Pro-28.	H0402: 1		
HCUGB37	706468	9208	56 - 208	18960	Leu-26 to Arg-31, Gly-38 to Lys-51.	H0402: 1		
HCUGB22	575851	9209	3 - 134	18961		H0402: 1		
HCUGB20	669742	9210	113 - 226	18962		H0402: 1		
HCUGB14	854035	9211	185 - 373	18963	Glu-27 to Ser-39.	H0402: 1		
HCUFY79	494008	9212	511 - 245	18964		H0402: 1		
	882298	9752	287 - 571	19504	Lys-12 to Glu-25, Gly-64 to Asp-79.			
HCUFW11	850054	9213	222 - 401	18965	Gln-1 to Trp-6, Met-21 to Ser-30, Pro-54 to Ala-60.	H0402: 1 and L0748: 1.		
HCUFW09	625658	9214	1 - 186	18966	Lys-1 to Pro-6, Ser-8 to Thr-15.	H0402: 1 and L0599: 1.		
HCUFT37	706467	9215	239 - 370	18967		H0402: 1, L0021: 1, L0065: 1, L0770: 1, L0769: 1, L0803: 1, L0804: 1, L0791: 1, L0665: 1 and L0747: 1.		
HCUFQ08	959567	9216	1 - 342	18968	Leu-21 to Asn-27.	H0402: 1 and L0369: 1.		
HCUFP11	967155	9217	2 - 220	18969	Lys-1 to His-6, Pro-20 to Ala-25, Pro-35 to Val-40, Leu-53 to Ser-61.	H0402: 1 and L0749: 1.		
HCUFO96	796434	9218	2 - 136	18970		H0402: 1		
HCUFO93	792376	9219	64 - 210	18971	Ser-1 to His-12,	H0402: 1		

HCUF068	753083	9220	3 - 122	18972	Pro-15 to Ser-29.				
HCUF043	715337	9221	61 - 225	18973	Pro-6 to Thr-18.			H0402: 1	
HCUF036	575850	9222	79 - 366	18974	Gly-15 to Cys-33, Glu-40 to Lys-52.			H0402: 1	
HCUF024	677273	9223	70 - 327	18975	Thr-1 to Gly-9, Pro-68 to Glu-79, Pro-91 to Arg-96.			H0402: 1	
HCUF011	967156	9224	2 - 160	18976				H0402: 1	109690, 109690, 131400, 154500, 159000, 180071, 181460, 222600, 222600, 222600, 272750, 600807, 601596, 602089
HCUFN78	773620	9225	1 - 168	18977	Glu-33 to Thr-44.			H0402: 1 and L0682: 1.	
HCUFM35	706461	9226	253 - 414	18978				H0402: 1 and L0754: 1.	
HCUF040	711242	9227	96 - 326	18979				H0402: 1, L0766: 1, L0647: 1, L0749: 1 and L0605: 1.	
HCUFK35	706460	9228	161 - 457	18980	Ala-1 to Ser-8.			L0604: 2 and H0402: 1.	
HCUFK09	961145	9229	1 - 333	18981	Ser-18 to Ala-24, Gly-32 to Asp-41, Arg-52 to Ile-57.			L0605: 2, H0402: 1, L0777: 1 and L0604: 1.	
HCUFJ08	850074	9230	51 - 215	18982				H0402: 1 and L0365: 1.	
HCUF150	974472	9231	90 - 425	18983	Leu-1 to Gly-7.			H0402: 1 and L0601: 1.	
HCUFF74	765662	9232	11 - 112	18984				H0402: 1	
HCUF55	731843	9233	48 - 152	18985	His-5 to Ser-10.			H0402: 1 and L0596: 1.	
HCUF54	730745	9234	145 - 312	18986	Pro-2 to Tyr-7, Pro-30 to Cys-36.			H0402: 1 and L0750: 1.	
HCUF70	757280	9235	346 - 534	18987	Pro-6 to Ser-12, Asp-19 to Ile-25.			H0402: 1 and L0751: 1.	
HCUES01	916805	9236	163 - 384	18988				L0748: 2 and H0402: 1.	
HCUEQ12	922556	9237	368 - 138	18989				L0369: 2 and H0402: 1.	
HCUEP32	586999	9238	127 - 273	18990				H0402: 1 and L0731: 1.	165215, 222900, 600049
					Leu-7 to Gly-17, Leu-23 to Cys-28,			H0402: 1	

HCUEO74	576576	9239	2 - 223	18991	Glu-35 to Lys-46. Val-24 to Gly-35, Pro-46 to Cys-51, Thr-57 to Lys-74.	H0402: 1		
HCUEO20	669764	9240	267 - 464	18992	Lys-6 to Leu-16.	H0402: 1 and L0600: 1.		
HCUEM93	792424	9241	52 - 240	18993	Gly-1 to Cys-6.	L0748: 2 and H0402: 1.		
HCUEM15	660450	9242	236 - 370	18994	Glu-32 to Gly-38.	H0402: 1 and L0362: 1.		
HCUEL24	677300	9243	171 - 341	18995		L0439: 2 and H0402: 1.		
HCUEL07	953587	9244	211 - 462	18996	Glu-12 to Asp-21, Pro-33 to Ser-53, Leu-60 to Thr-69.	L0599: 2, H0402: 1 and L0769: 1.		
HCUEG27	683541	9245	314 - 544	18997		H0402: 1 and L0748: 1.		
HCUEF38	706450	9246	1 - 171	18998	Leu-16 to Asp-21.	H0402: 1		
HCUED05	932123	9247	3 - 194	18999	Ser-15 to Cys-31.	H0402: 1		
HCUDY74	839955	9248	133 - 321	19000	Ala-42 to Glu-49.	H0402: 1 and L0520: 1.		
HCUDX89	974483	9249	3 - 227	19001	Asp-11 to Arg-17, Arg-32 to Pro-44, Leu-53 to His-58, Gln-68 to Cys-75.	H0402: 1		
HCUDU18	850099	9250	1 - 261	19002	Arg-33 to Thr-39.	H0402: 1 and L0589: 1.		
HCUDQ81	902510	9251	144 - 329	19003	Lys-1 to Ile-8, Leu-24 to Gly-29, Glu-52 to Lys-62.	H0402: 1		
	928439	9753	440 - 3	19505	Lys-1 to Ile-8, Leu-24 to Gly-29, Glu-52 to Ser-64, Asn-88 to Asn-97, Gln-104 to Glu-109.			
HCUDQ45	881366	9252	295 - 591	19004	Pro-43 to Trp-48, Ser-81 to Ser-90.	H0402: 1		
HCUDN89	811185	9253	2 - 328	19005		H0402: 1 and L0756: 1.		
HCUDN82	779978	9254	185 - 310	19006		H0402: 1 and L0599: 1.		
HCUDN71	862116	9255	2 - 394	19007		H0402: 1 and L0766: 1.		
HCUDK08	959679	9256	188 - 316	19008		H0402: 1 and L0803: 1.		
HCUDI17	664109	9257	57 - 227	19009	Leu-18 to Ser-25.	H0402: 1		
HCUDG26	681985	9258	226 - 369	19010		H0402: 1 and L0591: 1.		

HCUD07	953588	9259	2 - 235	19011			H0402: 1	
HCUC58	850117	9260	1 - 165	19012			H0306: 1 and L0750: 1.	
HCUC14	659221	9261	189 - 353	19013		Trp-1 to Ser-9.	H0306: 1, L0748: 1 and L0749: 1.	
HCUC123	676276	9262	119 - 208	19014			H0306: 1 and L0745: 1.	
HCUC29	608615	9263	2 - 343	19015		Ser-25 to Ser-30.	AR051: 9, AR050: 3, AR054: 2	
	637567	9754	2 - 337	19506		Ser-23 to Ser-28, Cys-79 to His-84.	H0306: 1	
HCUCG40	800153	9264	1 - 153	19016			AR054: 24, AR051: 19, AR050: 12	
							H0306: 1	
HCUCG07	953823	9265	73 - 300	19017		Lys-19 to Lys-25.	H0306: 1 and L0387: 1.	
HCUCD83	781346	9266	115 - 381	19018			H0306: 1 and L0755: 1.	
HCUCD05	932333	9267	116 - 376	19019			L0588: 2, H0306: 1 and L0747: 1.	
HCUBX45	850122	9268	125 - 400	19020		Ser-1 to Gly-7.	H0306: 1, L0800: 1, L0809: 1 and L0779: 1.	
HCUBV91	790368	9269	47 - 223	19021			H0306: 1 and L0596: 1.	
HCUBT35	850126	9270	121 - 291	19022		Glu-50 to Ala-57.	H0306: 1 and L0748: 1.	
HCUBS07	953861	9271	85 - 243	19023		Asp-13 to Trp-18, Leu-39 to Gly-46.	H0306: 1 and L0749: 1.	
HCUBP94	574198	9272	3 - 143	19024		Cys-11 to Gln-20.	H0306: 1	
HCUBP82	526773	9273	1 - 69	19025			H0306: 1	
HCUBP48	577289	9274	1 - 222	19026		Asn-12 to His-19, Lys-61 to Thr-72.	H0306: 1 and L0748: 1.	
HCUBP34	576462	9275	177 - 383	19027			H0306: 1	
HCUBP10	961259	9276	3 - 203	19028		Lys-1 to Thr-7, Thr-17 to Gln-25, Leu-29 to Arg-44.	H0306: 1	
HCUBO67	526489	9277	128 - 232	19029		Pro-15 to Cys-28.	H0306: 1	
HCUBM73	577294	9278	1 - 201	19030		Pro-1 to Cys-16.	H0306: 1 and L0748: 1.	
HCUBM49	722190	9279	163 - 438	19031		Gly-84 to Thr-90.	L0749: 2, H0306: 1 and L0748: 1.	
HCUBL10	968223	9280	222 - 410	19032			H0306: 1 and L0761: 1.	



HCUBJ45	723364	9281	194 - 367	19033	Lys-12 to Gly-21.	L0748: 2 and H0306: 1.	
HCUBG69	757752	9282	2 - 238	19034		H0306: 1	
HCUBG43	576468	9283	202 - 381	19035		H0306: 1	
HCUBE89	785987	9284	2 - 169	19036	Glu-1 to Lys-13, Gly-34 to His-39.	L0777: 2 and H0306: 1.	
HCUBE49	723175	9285	47 - 193	19037	Ser-3 to Gly-10, Leu-13 to His-20.	H0306: 1 and L0599: 1.	
HCUBE22	409828	9286	338 - 499	19038		H0306: 1	
HCUBB68	752247	9287	174 - 380	19039		H0306: 1 and L0748: 1.	
HCUBA93	792515	9288	297 - 440	19040		H0306: 1 and L0591: 1.	
HCUAZ01	917266	9289	176 - 298	19041	Pro-19 to Arg-34.	H0306: 1 and L0634: 1.	
HCUAW03	924897	9290	193 - 426	19042	Thr-20 to Asp-25, His-42 to Ser-58, Asn-68 to Leu-73.	H0306: 1 and L0776: 1.	
HCUAP34	706426	9291	8 - 97	19043		H0306: 1 and L0748: 1.	
HCUAN95	796010	9292	2 - 100	19044		H0306: 1	
HCUAN89	574275	9293	49 - 141	19045	Ser-21 to Lys-31.	H0306: 1	
HCUAN53	728364	9294	2 - 133	19046		H0306: 1	
HCUAM65	887470	9295	225 - 464	19047		AR050: 38, AR054: 30, AR051: 29 H0306: 1	
HCUAL33	702677	9296	8 - 181	19048		L0749: 2, H0306: 1 and L0748: 1.	
HCUAG10	968229	9297	1 - 168	19049		H0306: 1 and L0601: 1.	
HCUAF80	862171	9298	3 - 140	19050	Ile-26 to Lys-31, Pro-39 to Pro-44.	L0772: 2 and H0306: 1.	
HCUAF01	850153	9299	53 - 313	19051	Pro-10 to Ser-16.	H0306: 1	
HCUAA92	792947	9300	429 - 593	19052		H0306: 1, L0766: 1, L0745: 1 and L0752: 1.	
HCFOF90	862572	9301	438 - 638	19053	Arg-19 to Arg-25.	L0385: 1 and H0423: 1.	
HCFOO25	678200	9302	115 - 246	19054		L0777: 1 and H0423: 1.	
HCFOO01	916687	9303	230 - 412	19055		L0717: 1 and H0423: 1.	
HCFOF45	850372	9304	145 - 474	19056	Ser-37 to Ser-42.	AR050: 16, AR054: 7, AR051: 4 H0423: 1	

HCFOF34	955905	9305	79 - 249	19057	Ile-1 to Leu-6.	L0375: 1, L0542: 1, L0526: 1, L0749: 1, L0759: 1 and H0423: 1.		
HCFNQ62	745755	9306	2 - 151	19058		L0598: 2, UNKWN: 1, L0748: 1, L0749: 1 and H0423: 1.		
HCFNP09	961149	9307	145 - 393	19059	Ala-15 to Leu-27, Ser-42 to Glu-47.	L0804: 2, L0731: 2, L0747: 1 and H0423: 1.		
HCFN134	485822	9308	2 - 325	19060		H0423: 1		
	494112	9755	314 - 135	19507	Arg-25 to Gly-36, Pro-55 to Tyr-60.			
HCFNG63	745148	9309	45 - 245	19061	Thr-54 to Pro-67.	H0423: 1		
HCFNG10	848225	9310	140 - 1036	19062	Pro-4 to Phe-9, Glu-17 to Pro-24, Lys-51 to Ala-104, Lys-114 to Lys-140, Arg-153 to Gln-188, Glu-203 to Gly-234, Gln-247 to Thr-262.	L0766: 1 and H0423: 1.		
HCFNB09	625697	9311	39 - 137	19063		L0748: 1 and H0423: 1.		
HCFNA77	874777	9312	2 - 163	19064	Thr-37 to Cys-43.	L0758: 1 and H0423: 1.		
HCFNA64	850391	9313	171 - 464	19065	Lys-13 to Gln-19, Ser-26 to Cys-40.	L0777: 1 and H0423: 1.		
HCFNA21	671021	9314	115 - 258	19066	Leu-7 to Leu-13, Pro-15 to Cys-28, Arg-41 to Lys-46.	H0423: 1		
HCFMZ90	922112	9315	273 - 881	19067	Asp-1 to Arg-8, Lys-15 to Asn-20, Thr-74 to Leu-80, Pro-84 to Asp-90.	AR061: 2, AR089: 1, L0749: 1, L0731: 1, L0757: 1 and H0423: 1.		
HCFMW71	920506	9316	195 - 407	19068	Pro-7 to Thr-12.	AR089: 10, AR061: 3, L0748: 3, L0749: 3, L0005: 1, L0777: 1, L0361: 1 and H0423: 1.		
HCFMU01	916695	9317	51 - 263	19069	Arg-37 to His-52.	L0766: 2 and H0423: 1.		
HCFMP46	463278	9318	54 - 245	19070	Asp-56 to Tyr-63.	L0756: 2, L0777: 2, L0749: 1.		

HC FMO47	881505	9319	125 - 322	19071	Pro-14 to Thr-23, Leu-42 to Ser-51.	1 and H0423: 1. H0423: 1	20q11.2	139190, 139190, 224100, 601002, 601002, 601146, 601146, 601146
HC FMI02	920349	9320	278 - 607	19072	Phe-18 to Gly-23, Met-79 to Asp-89.	L0809: 1 and H0423: 1.		
HC FMI37	955281	9321	137 - 658	19073	Pro-58 to Cys-69, Pro-71 to Glu-77, Tyr-102 to Ser-107.	AR089: 5, AR061: 1 H0423: 1		
HC FMIH46	719113	9322	109 - 321	19074		L0654: 1 and H0423: 1.		
HC FLY85	909182	9323	96 - 242	19075	Arg-16 to Arg-21, Trp-37 to Leu-48.	L0766: 2, L0747: 2 and H0423: 1.		
HC FLY53	727465	9324	71 - 265	19076		L0748: 3 and H0423: 1.		
HC FLY08	959620	9325	238 - 495	19077		L0599: 2, L0763: 1, L0805: 1, L0754: 1 and H0423: 1.		
HC FLYV30	692781	9326	253 - 462	19078	Glu-9 to Ala-14, Gln-24 to Gln-31, Arg-41 to Pro-48.	L0748: 3 and H0423: 1.		
HC FLT86	785560	9327	246 - 560	19079	Tyr-49 to Ala-55.	L0749: 1 and H0423: 1.		
HC FLM03	850403	9328	219 - 395	19080	Asn-12 to Tyr-23.	L0581: 1 and H0423: 1.		
HC FLL03	850406	9329	351 - 698	19081	Pro-39 to Gly-47, Asn-55 to Ser-64, Ser-76 to Gln-83.	L0527: 2, L0366: 1 and H0423: 1.		
HC FLK10	964792	9330	230 - 460	19082		L0745: 1, L0750: 1 and H0423: 1.		
HC FLB24	502414	9331	3 - 248	19083	Ser-43 to Ala-49, Gln-76 to Met-82.	H0423: 1		
HC FDD43	511210	9756	433 - 251	19508	Pro-25 to Ser-33.			
	779327	9332	3 - 173	19084	Glu-38 to Gly-43.	L0586: 1, L0756: 1 and H0422: 1.	12q14	123829, 147570, 181430, 252940, 264700, 600808, 601284, 601769, 601769, 602116
HC FCV32	850413	9333	168 - 377	19085	Asp-22 to Gln-27, Pro-29 to Gly-36.	H0422: 1		

HCFCP77	772256	9334	87 - 194	19086			L0754: 1 and H0422: 1.		
HCFCM75	850435	9335	182 - 355	19087	Glu-1 to Lys-15.		L0740: 1 and H0422: 1.		
HCFCCK25	494159	9336	239 - 3	19088	Lys-50 to Lys-64.		L0517: 1 and H0422: 1.		
	519091	9757	212 - 376	19509	Pro-38 to Leu-43, Ile-49 to Cys-55.				
HCFCG23	850426	9337	44 - 247	19089	Lys-46 to Lys-57.		H0422: 1		
HCFCF76	973808	9338	1 - 291	19090			H0422: 1		
HCFCCL10	964782	9339	277 - 507	19091	Arg-58 to Glu-66.		L0794: 2 and H0422: 1.		
HCFCBX86	844884	9340	425 - 619	19092	Arg-23 to Thr-28.		H0422: 1		
	874103	9758	273 - 485	19510					
HCFCBQ30	692787	9341	505 - 338	19093			L0748: 1, L0754: 1, L0745: 1 and H0422: 1.		
HCFCBM75	766599	9342	137 - 316	19094			L0748: 1 and H0422: 1.		
HCFCBM41	711631	9343	589 - 774	19095	Pro-31 to Lys-38.		L0748: 1 and H0422: 1.		
HCFCBK28	706243	9344	4 - 171	19096			L0754: 1 and H0422: 1.		
HCFCBK04	925601	9345	182 - 304	19097	Glu-1 to Trp-7, Gly-35 to His-41.		L0803: 3, L0777: 3, L0756: 2, L0780: 2, L0766: 1, L0774: 1, L0743: 1, L0757: 1, L0596: 1 and H0422: 1.		
HCFCBI51	670066	9346	27 - 518	19098			H0422: 1		
HCFCBA94	698647	9347	139 - 291	19099			L0794: 1, L0805: 1, L0439: 1, L0747: 1, L0779: 1; L0758: 1 and H0422: 1.		
HCFAZ12	970609	9348	3 - 188	19100	Asp-15 to Ser-22.		AR051: 13, AR054: 2, AR050: 1 H0422: 1		
HCFAZ07	849823	9349	222 - 1	19101	Ser-28 to Asn-40, Lys-68 to Lys-74.		L0588: 1 and H0422: 1.		
HCFAF08	959714	9350	117 - 275	19102	Leu-1 to Ala-7.		L0438: 2 and H0422: 1.		
HCFAAC38	576723	9351	2 - 166	19103	Arg-1 to Lys-7, Arg-28 to Arg-34.		H0422: 1		
HBYAB02	971578	9352	324 - 139	19104			S3016: 1, L0598: 1, L0763: 1 and L0665: 1.		
HBUAG44	716685	9353	3 - 110	19105	His-1 to Ser-6, Ser-21 to Val-28.		S0182: 1 and L0766: 1.		
HBUAC23	847698	9354	3 - 194	19106			S0182: 1 and L0748: 1.		

HBTAEB84	781946	9355	2 - 295	19107	Thr-41 to Phe-51, Leu-58 to Asn-63.	AR089: 1, AR061: 0 S0180: 1		
HBMXU73	953898	9356	507 - 635	19108	Tyr-7 to Thr-21.	L0770: 2, S0116: 1, L0775: 1 and L0439: 1.		
HBMXS23	675254	9357	216 - 455	19109	Gln-1 to Pro-7, Gln-43 to Ser-53, Lys-67 to Lys-74.	L0748: 4, L0605: 3, S0116: 1 and L0747: 1.		
HBMXL78	738763	9358	312 - 452	19110		S0116: 1 and L0731: 1.		
HBMXL41	711608	9359	2 - 118	19111		S0116: 1 and L0748: 1.		
HBMXJ70	757328	9360	291 - 398	19112		S0116: 1 and L0748: 1.		
HBMXG10	968055	9361	16 - 198	19113	Glu-15 to Trp-22, Cys-24 to Tyr-31, Ser-52 to Arg-57.	S0116: 1 and L0439: 1.		
HBMXF73	764551	9362	134 - 295	19114	Ser-37 to Met-44.	S0116: 1 and L0748: 1.		
HBMWX13	955208	9363	153 - 317	19115	Pro-5 to Pro-11.	S0116: 1 and L0665: 1.		
HBMWS75	767440	9364	108 - 350	19116	Met-1 to Gly-6, Lys-19 to Val-26.	S0116: 1 and L0748: 1.		
HBMWR62	754059	9365	177 - 395	19117		S0116: 1, L0754: 1 and L0589: 1.		
HBMWK06	936088	9366	142 - 249	19118	Lys-8 to Cys-13.	S0116: 1 and L0608: 1.		
HBMWI28	685443	9367	3 - 134	19119	Gly-7 to Arg-13.	L0748: 2 and S0116: 1.		
HBMWE35	706034	9368	184 - 360	19120	Ser-1 to Ser-10, Pro-39 to His-45.	L0745: 2 and S0116: 1.	15q22	102578, 109700, 151670, 154550, 601780
HBMVQ26	546495	9369	175 - 303	19121	Ala-8 to Glu-20.	S0116: 1		
HBMVO41	712565	9370	225 - 359	19122		S0116: 1 and L0439: 1.		
HBMVI33	702683	9371	75 - 242	19123		S0116: 1 and L0439: 1.		
HBMVG85	575418	9372	54 - 221	19124		L0439: 2 and S0116: 1.		
HBMVG18	666855	9373	37 - 159	19125		L0748: 4 and S0116: 1.		
HBMVE59	933208	9374	50 - 178	19126	Asn-4 to Ser-10.	L0748: 3 and S0116: 1.		
HBMVD05	932441	9375	175 - 357	19127	Met-21 to Lys-27, Asp-35 to Thr-40, Gln-42 to Tyr-47.	S0116: 1 and L0581: 1.		
HBMUW96	574517	9376	28 - 210	19128		S0116: 1		
HBMUW85	783416	9377	257 - 625	19129	Pro-11 to Gly-24.	S0116: 1, L0439: 1 and L0731: 1.		

HBMUW58	574513	9378	86 - 214	19130		S0116: 1	
HBMUN03	847787	9379	244 - 408	19131		S0116: 1 and L0758: 1.	
HBMUL31	456760	9380	249 - 503	19132	Ser-22 to Gln-34.	S0116: 1	
HBMUG59	739509	9381	55 - 249	19133	Arg-10 to Thr-16.	S0116: 1 and L0758: 1.	
HBMUG23	425961	9382	464 - 619	19134		S0116: 1 and L0766: 1.	
	675305	9759	155 - 337	19511			
	675308	9760	287 - 189	19512	Gln-16 to Lys-33.		
HBMUD91	789320	9383	262 - 603	19135	Asp-43 to His-71.	S0116: 1 and L0748: 1.	
HBMUB13	950984	9384	177 - 416	19136		S0116: 1 and L0740: 1.	
HBMUX71	760605	9385	122 - 331	19137	Ile-1 to Leu-7, Lys-33 to Ser-38, Gln-52 to Gly-66.	S0116: 1 and L0748: 1.	
HBMUTS23	676310	9386	44 - 298	19138	Thr-34 to Asp-39, Pro-75 to Ser-82.	S0116: 1, L0438: 1 and L0439: 1.	
HBMTR29	847785	9387	207 - 497	19139		L0599: 2, S0116: 1, L0763: 1 and L0748: 1.	
HBMSTM67	751907	9388	162 - 308	19140		S0116: 1 and L0754: 1.	
HBMTD69	754179	9389	199 - 324	19141		S0116: 1 and L0754: 1.	
HBMTB85	923730	9390	192 - 446	19142		S0116: 1 and L0750: 1.	
HBMTB34	706024	9391	178 - 474	19143	Leu-11 to Asn-19, Arg-39 to Trp-44, Gly-49 to Ala-55.	L0749: 2 and S0116: 1.	
HBMXS83	863883	9392	1 - 162	19144	Arg-1 to Ser-8.	S0116: 1 and L0766: 1.	
HBMDS02	920096	9393	219 - 380	19145	Tyr-12 to Tyr-17.	H0421: 1 and L0777: 1.	
HBMND16	661947	9394	265 - 495	19146		H0421: 1 and L0439: 1.	
HBMMD25	678127	9395	380 - 571	19147	Asn-14 to Ile-20, Cys-30 to Tyr-36.	H0421: 1, L0766: 1 and L0439: 1.	
HBMMDL27	683427	9396	280 - 501	19148	Cys-6 to Arg-26, Ser-28 to Arg-38, Phe-63 to Tyr-74.	H0421: 1 and L0748: 1.	
HBMDF52	727169	9397	365 - 547	19149	Lys-18 to Gly-23.	H0421: 1 and L0599: 1.	
HBMDD72	879813	9398	67 - 387	19150	Pro-2 to Gln-10.	H0421: 1	
HBMCD30	692733	9399	324 - 530	19151	Arg-1 to Gly-11, Ala-15 to Ser-22, Gln-40 to Gly-45.	H0421: 1 and L0602: 1.	

HBMCT24	677209	9400	133 - 285	19152			H0421: 1		
HBMCT09	625627	9401	456 - 626	19153	Phe-1 to Asn-11.		L0754: 2 and H0421: 1.		
HBMCS92	792736	9402	2 - 181	19154	Ala-1 to Lys-12.		H0421: 1 and L0748: 1.		
HBMCS55	731802	9403	76 - 219	19155			L0746: 2, H0421: 1 and L0777: 1.		
HBMCR25	678164	9404	275 - 613	19156			L0766: 3, H0421: 1 and L0741: 1.		
HBMCCQ95	888393	9405	181 - 372	19157			AR050: 133, AR054: 121, AR051: 115 H0421: 1		
HBMCG84	783043	9406	3 - 170	19158	Gln-21 to Val-26, Lys-42 to Ile-47.		H0421: 1 and L0748: 1.		
HBMCF20	646279	9407	106 - 495	19159			H0421: 1, L0384: 1 and L0592: 1.		
HBMCB55	731800	9408	1 - 228	19160	Pro-13 to Arg-21.		H0421: 1 and L0748: 1.		
HBMXB72	911168	9409	438 - 719	19161	Trp-10 to Ala-18, Arg-86 to Pro-93.		H0421: 1		
HBMXB64	746633	9410	91 - 249	19162			L0754: 2 and H0421: 1.		
HBMXB55	668981	9411	199 - 327	19163	Gln-19 to Ala-31.		H0421: 1, L0748: 1, L0439: 1 and L0596: 1.		
HBMBUS2	973805	9412	97 - 282	19164			H0421: 1 and L0794: 1.		
HBMBN85	783520	9413	18 - 212	19165	Arg-25 to Cys-32.		H0421: 1		
HBMBI49	723094	9414	316 - 456	19166	Thr-1 to Ser-9.		L0748: 2 and H0421: 1.		
HBMBF89	912789	9415	73 - 579	19167			H0421: 1, L0749: 1 and L0755: 1.		
HBMBF78	623421	9416	590 - 892	19168			H0421: 1		
HBMBE68	879588	9417	2 - 400	19169			H0421: 1 and L0776: 1.		
HBMBC66	859500	9418	87 - 353	19170	His-12 to Cys-21.		H0421: 1 and L0747: 1.		
HBMBS57	734915	9419	1 - 147	19171			H0421: 1		
HBMBS45	578817	9420	12 - 293	19172	Val-6 to Lys-18, Arg-31 to Arg-42, Arg-48 to Asn-55.		H0421: 1		
HBMAC54	930481	9421	191 - 433	19173			T0071: 1 and L0051: 1.		
HBJNC01	915970	9422	120 - 299	19174			H0318: 1 and L0766: 1.		
HBJNB52	726475	9423	160 - 357	19175	Pro-15 to Cys-23.		AR061: 4, AR089: 4		

									H0318: 1, L0766: 1 and L0748: 1.			
HBJMW95	797604	9424	497 - 802	19176				Thr-7 to Asp-21, Thr-42 to Ser-54.	L0758: 2 and H0318: 1.			
HBJMW03	921996	9425	149 - 310	19177				Ser-16 to Glu-22.	L0745: 2, H0318: 1, L0439: 1, L0746: 1 and L0779: 1.			
HBJMU53	727987	9426	88 - 285	19178				Arg-1 to Lys-6, Pro-17 to Phe-27.	H0318: 1 and L0439: 1.			
HBJMS40	710880	9427	101 - 235	19179					H0318: 1 and L0748: 1.			
HBJMR59	738615	9428	1 - 204	19180					H0318: 1 and L0748: 1.			
HBJML90	787320	9429	328 - 164	19181					H0318: 1, L0598: 1 and L0754: 1.			
HBJML80	775435	9430	165 - 305	19182				Ala-14 to Thr-19, Cys-29 to Trp-36.	H0318: 1 and L0750: 1.			
HBJME11	972939	9431	31 - 234	19183					H0318: 1			
HBJMC69	754875	9432	62 - 262	19184					H0318: 1 and L0748: 1.			
HBJMA80	777456	9433	42 - 215	19185					H0318: 1 and L0748: 1.			
HBJLX09	625319	9434	290 - 442	19186				Gln-4 to Lys-14.	H0318: 1 and L0605: 1.			
HBJLW74	765352	9435	88 - 354	19187				Ser-21 to Gly-27.	H0318: 1 and L0748: 1.			
HBJLU36	847851	9436	68 - 439	19188				Glu-19 to Ser-30.	H0318: 1 and L0748: 1.			
HBJLR37	849633	9437	2 - 328	19189				Asn-1 to His-11.	AR089: 3, AR061: 1 L0593: 2, L0594: 2, H0318: 1 and L0592: 1.			
HBJLR31	900883	9438	3 - 956	19190				His-7 to Gly-17, Gly-28 to Gln-33, Asp-51 to Ala-59, Glu-94 to Glu-101, Pro-118 to Val-123, Pro-143 to Gly-152, Gln-203 to Glu-211, Ser-213 to Thr-226, Ser-233 to Gln-239, Arg-274 to Ser-279, His-288 to Pro-294.	AR061: 4, AR089: 3, AR051: 2, AR050: 1, AR054: 1 H0318: 1			
HBJLF04	614915	9439	40 - 282	19191					H0318: 1 and L0591: 1.			
HBJLE70	847853	9440	586 - 834	19192				Asn-25 to Ser-34,	H0318: 1 and L0777: 1.			



HBJK177	772000	9441	98 - 337	19193	Gly-50 to Ser-57.	L0747: 2 and H0318: 1.	
HBJKG07	952843	9442	530 - 802	19194	Pro-12 to Met-21.	H0318: 1 and L0800: 1.	
HBJKF02	919446	9443	246 - 398	19195	Glu-1 to Gly-8, Asp-32 to Glu-40.	H0318: 1 and L0766: 1..	
HBJKD77	771975	9444	179 - 379	19196		H0318: 1	
HBJKD64	746398	9445	3 - 143	19197	Ser-40 to Glu-47.	H0318: 1	
HBJKD60	740171	9446	666 - 902	19198		H0318: 1 and L0754: 1.	
HBJKD50	724159	9447	1 - 204	19199	Arg-1 to Tyr-6.	H0318: 1	
HBJKD49	847857	9448	3 - 215	19200		H0318: 1	
HBJKD40	710931	9449	36 - 179	19201		H0318: 1	
HBJKA77	771982	9450	2 - 178	19202		H0318: 1 and L0777: 1.	18p11.31-p11.2 202200
HBJKA01	916077	9451	19 - 153	19203	Lys-37 to Lys-45.	H0318: 1 and L0646: 1.	
HBJJX53	835733	9452	79 - 393	19204		AR061: 6, AR089: 4 H0318: 1	
HBJJT12	894345	9453	3 - 596	19205	Phe-12 to Gln-21, Asp-27 to Thr-38, Pro-44 to Ser-52, Asn-54 to Ser-74, Ser-86 to Thr-92, Ala-117 to Phe-124, Gly-137 to Thr-142, Gly-182 to Ser-187.	AR061: 2, AR089: 1 L0749: 2 and H0318: 1.	
HBJJN02	919371	9454	306 - 548	19206	Thr-1 to Gly-9, Glu-29 to Ala-36, Pro-43 to Asn-50.	L0239: 1 and H0318: 1.	
HBJJL10	937583	9455	3 - 119	19207	Val-23 to Asn-30.	H0318: 1 and L0766: 1.	
HBJJIE44	716409	9456	195 - 374	19208	Phe-5 to Trp-19, His-45 to Lys-53.	L0439: 2, L0780: 2 and H0318: 1.	
HBJJJA32	699059	9457	381 - 683	19209	Asp-39 to Asn-46, Ser-61 to Gln-66.	L0744: 3, H0318: 1 and L0743: 1.	
HBJJJA01	916078	9458	543 - 1055	19210	Asn-66 to Tyr-71, Gly-102 to Phe-109, Lys-120 to Asn-126.	L0766: 5, L0777: 3, L0779: 2, L0731: 2, H0318: 1 and L0803: 1.	
HBJJL42	597100	9459	280 - 411	19211		H0318: 1 and L0754: 1.	
HBJJL36	861363	9460	2 - 370	19212	Leu-62 to Ser-68,	H0318: 1, L0780: 1 and	

HBJH60	930448	9461	1 - 234	19213	Gly-117 to Gln-123. Pro-35 to Pro-42.	L0759: 1. AR089: 35, AR061: 8 H0318: 1, L0520: 1 and L0779: 1.		
HBJIF51	725081	9462	86 - 205	19214	Leu-18 to Leu-28, Leu-32 to Ala-60, Arg-69 to Gln-76.	H0318: 1 and L0748: 1. L0748: 4 and H0318: 1.		
HBJIF31	697753	9463	482 - 255	19215				
HBJIB69	754891	9464	123 - 251	19216		L0748: 2 and H0318: 1.		
HBJIA80	784267	9465	198 - 428	19217		H0318: 1, L0759: 1 and L0596: 1.		
HBJHX73	971377	9466	241 - 1059	19218	His-8 to Gly-18, Thr-52 to Tyr-63, Tyr-93 to Gly-105, Arg-114 to Gln-130, Asn-139 to Cys-147, Cys-149 to Asp-159, Arg-196 to Trp-202.	AR050: 428, AR054: 421, AR051: 340 H0318: 1		
HBJHW74	765380	9467	112 - 444	19219	Pro-4 to Leu-11, Gly-39 to Arg-53.	L0748: 2 and H0318: 1.		
HBJHU20	907575	9468	125 - 298	19220		L0589: 2 and H0318: 1.		
HBJHO44	882040	9469	171 - 347	19221	Ser-10 to Arg-15.	H0318: 1 and L0748: 1.		
HBJHI96	828996	9470	237 - 437	19222	Arg-1 to Ser-6, Thr-28 to Trp-38.	H0318: 1 and L0759: 1.	120215, 120215, 190198	
HBJHG02	919450	9471	202 - 321	19223	Gly-17 to Lys-27, Gln-30 to Val-35.	H0318: 1, L0766: 1 and L0608: 1.		
HBJGT03	923800	9472	35 - 226	19224	Ala-16 to Ser-22, Pro-31 to Leu-38, Ser-41 to Gly-48.	AR061: 5, AR089: 3 L0769: 2, H0318: 1 and L0787: 1.		
HBJFR45	722105	9473	309 - 518	19225	Gln-20 to Ser-34, Cys-53 to Asp-58.	H0318: 1, L0789: 1 and L0748: 1.		
HBJFQ08	959190	9474	139 - 339	19226		H0318: 1		
HBJFP52	728580	9475	165 - 362	19227	Asp-1 to Gly-6, Thr-38 to Arg-46.	L0439: 2 and H0318: 1.		
HBJFP08	959868	9476	191 - 388	19228	Arg-46 to Lys-51.	H0318: 1 and L0777: 1.		
HBJFK85	783432	9477	1 - 111	19229	Pro-20 to Ile-25.	L0439: 2 and H0318: 1.		

HBJF148	847899	9478	271 - 483	19230		AR051: 32, AR054: 28, AR050: 23 H0318: 1		
HBJF130	691056	9479	33 - 452	19231	Pro-1 to Trp-6, Glu-55 to Glu-64.	L0748: 2, L0740: 2 and H0318: 1.		
HBJFH60	740543	9480	242 - 388	19232	Ala-5 to Arg-14, Tyr-22 to His-28.	L0756: 4, L0600: 2, H0318: 1 and L0754: 1.		
HBJFH06	935587	9481	333 - 689	19233	Pro-8 to Ser-14, Asn-32 to Gly-38, Arg-75 to Ser-82, Ser-91 to Gln-96.	H0318: 1 and L0592: 1.		
HBJFD41	711591	9482	3 - 377	19234		L0608: 2, H0318: 1 and L0748: 1.		
HBJFD21	671205	9483	211 - 399	19235	Leu-3 to Gly-16.	L0766: 3, L0748: 3, H0318: 1, L0789: 1 and L0749: 1.		
HBJFC23	423885	9484	3 - 458	19236		AR061: 8, AR089: 4 L0439: 3 and H0318: 1.		
HBJFB10	968162	9485	44 - 259	19237		L0748: 2, H0318: 1 and L0749: 1.		
HBJEY89	787044	9486	104 - 322	19238	Asp-9 to Gly-26.	H0318: 1 and L0747: 1.		
HBJES09	487020	9487	66 - 272	19239	Asn-18 to His-23, Glu-38 to Glu-45.	H0318: 1		
	490958	9761	284 - 141	19513				
HBJEP70	757374	9488	283 - 471	19240	Glu-1 to Arg-8.	L0754: 2 and H0318: 1.		
HBJEN68	752251	9489	307 - 465	19241		L0748: 2 and H0318: 1.		
HBJEM45	722107	9490	49 - 153	19242		H0318: 1 and L0740: 1.		
HBJEL04	615515	9491	329 - 493	19243		L0748: 2 and H0318: 1.		
HBJEL06	935967	9492	99 - 200	19244		H0318: 1 and L0748: 1.		
HBJEE72	766187	9493	2 - 184	19245		L0439: 2 and H0318: 1.		
HBJED51	485130	9494	3 - 206	19246		H0318: 1		
HBJED05	935058	9495	273 - 473	19247	His-4 to Leu-15.	S0005: 1 and H0318: 1.		
HBJEC67	573809	9496	160 - 438	19248	Arg-2 to Leu-9, Arg-38 to Cys-54.	H0318: 1		
HBJEA73	573834	9497	1 - 81	19249	Gly-1 to His-18, Ala-22 to Trp-27.	H0318: 1		
HBJEA54	625943	9498	308 - 445	19250	Asn-35 to Arg-41.	H0318: 1		

HBJEA38	577103	9499	12 - 257	19251	Lys-1 to Glu-10.	L0749: 4 and H0318: 1.	
HBJEA37	839964	9500	1 - 108	19252	Lys-10 to Pro-20.	H0318: 1	
HBJEA13	419107	9501	56 - 268	19253		H0318: 1	
HBJDZ49	847928	9502	142 - 303	19254		L0758: 2, H0318: 1 and L0752: 1.	
HBJDR24	677407	9503	94 - 219	19255		H0318: 1 and L0748: 1.	
HBJDQ86	784654	9504	3 - 116	19256		H0318: 1 and L0756: 1.	
HBJDM70	757435	9505	313 - 399	19257	Leu-1 to Tyr-6.	H0318: 1 and L0754: 1.	
HBJDL24	678272	9506	180 - 440	19258	Glu-48 to Gly-53.	L0748: 3 and H0318: 1.	
HBJCV85	900955	9507	538 - 735	19259		AR054: 10, AR050: 8, AR051: 2	
						H0318: 1	
HBJCQ65	876430	9508	68 - 286	19260	Gly-35 to Ser-48.	H0318: 1, L0748: 1 and L0754: 1.	
HBJCJ82	779645	9509	315 - 479	19261		H0318: 1	
HBJCE07	954090	9510	1 - 132	19262	Glu-11 to Arg-19.	H0318: 1 and L0748: 1.	
HBJCB83	781411	9511	2 - 370	19263		H0318: 1 and L0748: 1.	
HBJBR04	847952	9512	115 - 309	19264		H0318: 1 and L0748: 1.	
HBJAP95	796659	9513	175 - 276	19265		H0318: 1 and L0752: 1.	
HBJAO55	732436	9514	40 - 171	19266	Thr-24 to Gly-37.	H0318: 1 and L0748: 1.	
HBJAJ49	723164	9515	320 - 439	19267		H0318: 1 and L0748: 1.	
HBJAI50	724619	9516	1 - 345	19268	Gly-32 to Tyr-41, Leu-64 to Asp-71.	L0731: 4, H0318: 1, L0783: 1, L0809: 1 and L0757: 1.	
HBJAH27	682941	9517	104 - 235	19269	Pro-29 to Pro-35.	H0318: 1	
HBJAE32	699695	9518	214 - 408	19270	Ile-3 to Leu-11, Lys-45 to Asp-50, Val-60 to Cys-65.	H0318: 1, L0664: 1, L0438: 1 and L0749: 1.	
HBJAB77	772422	9519	80 - 325	19271	Asn-17 to Trp-23, Ala-33 to Ile-47.	H0318: 1 and L0748: 1.	
HBJAB49	722195	9520	175 - 471	19272	Tyr-39 to Val-44.	L0766: 2, L0803: 2 and H0318: 1.	
HBJAB28	847966	9521	96 - 272	19273	Gly-38 to Lys-45.	H0318: 1 and L0485: 1.	
HBJAB15	660552	9522	31 - 390	19274	Glu-71 to Phe-79, Glu-98 to Ala-103, Ala-111 to Met-117.	H0318: 1 and L0759: 1.	

HBD4E47	720008	9523	364 - 486	19275	Phe-25 to Pro-34.	L0363: 1, L0766: 1, L0804: 1 and S0308: 1.		
HBDAD64	864344	9524	240 - 548	19276	Gln-8 to Trp-30, Arg-77 to Val-95.	L0754: 2 and S0308: 1.		
HBDAD16	661560	9525	260 - 388	19277	Tyr-2 to His-10.	L0809: 1, L0748: 1 and S0308: 1.		
HBCCO10	963157	9526	184 - 372	19278	Thr-30 to Glu-37, Gln-42 to Arg-49.	L0749: 2 and H0370: 1.		
HBCCO105	930956	9527	72 - 365	19279	Pro-5 to His-14, Ser-58 to Ala-66.	H0370: 1 and L0748: 1.		
HBCCE11	965869	9528	336 - 527	19280	Arg-9 to Cys-21, Pro-35 to Trp-41.	H0370: 1, L0766: 1 and L0803: 1.		
HBCCD06	938319	9529	1 - 408	19281	Arg-1 to Glu-6, Ala-10 to Ala-15, Ala-35 to Ser-43.	H0370: 1 and L0759: 1.		
HBCCB51	975256	9530	48 - 227	19282	Lys-46 to Gly-60.	H0370: 1		
HBCBR08	958151	9531	3 - 428	19283	Pro-18 to Gln-23, Pro-72 to Gln-81, Pro-87 to Ser-93, Asp-112 to Leu-119, Pro-121 to Ala-135.	H0370: 1 and L0766: 1.	16q22.1	103850, 114835, 116800, 140100, 140100, 192090, 192090, 192090, 192090, 245900, 245900, 276600, 600223
HBCBN51	952057	9532	358 - 738	19284	Arg-7 to Ser-19, Leu-97 to Ala-106.	AR089: 28, AR061: 8, L0143: 2, H0370: 1 and L0595: 1.		
HBCBN06	934110	9533	25 - 231	19285		H0370: 1 and L0748: 1.		
HBCBG04	926761	9534	213 - 596	19286	Lys-13 to Leu-18.	L0749: 2 and H0370: 1.		
HBCBF12	969578	9535	1 - 225	19287		H0370: 1, L0659: 1 and L0758: 1.		
HBCBE57	848322	9536	426 - 677	19288	Gly-51 to Gly-56, Pro-62 to Gly-74.	H0370: 1, L0748: 1, L0749: 1 and L0591: 1.		
HBCBB22	848325	9537	566 - 868	19289		H0370: 1, L0744: 1, L0779: 1, L0777: 1 and L0601: 1.		
HBCAW52	573919	9538	65 - 247	19290	Pro-7 to Pro-19, Ser-26 to Gly-34.	H0370: 1		

HBCAT10	968195	9539	84 - 218	19291	Tyr-9 to Gly-15, Lys-34 to Gln-41.	H0370: 1 and L0759: 1.		
HBCAS32	699489	9540	106 - 264	19292	Leu-1 to Gln-6, Pro-13 to His-18, Arg-35 to Val-43.	H0370: 1 and L0744: 1.		
HBCAQ85	783431	9541	2 - 307	19293	Gly-18 to Pro-24, Pro-26 to Gln-41.	L0439: 2 and H0370: 1.		
HBCAQ42	864356	9542	182 - 430	19294	Arg-8 to Asp-17.	H0370: 1 and L0365: 1.		
HASCG58	738423	9543	21 - 236	19295		L0748: 3, L0731: 2, H0274: 1 and L0754: 1.		
HASAW90	789112	9544	494 - 655	19296	Asn-27 to Ser-38.	L0740: 2, L0758: 2, H0004: 1 and L0439: 1.		
HASAR74	879377	9545	745 - 1068	19297		H0004: 1		
	883501	9762	251 - 643	19514				
HASAC10	968746	9546	3 - 287	19298	Arg-30 to Tyr-38, Met-71 to Arg-76, His-78 to Val-86, Glu-89 to Gly-95.	H0004: 1, L0639: 1, L0748: 1 and L0779: 1.		

- [044] The first column in Table 1A provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1A. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods known in the art and/or as described elsewhere herein.
- [045] The second column in Table 1A provides a unique "Contig ID" identification for each contig sequence. The third column provides the "SEQ ID NO:X" identifier for each of the immune/hematopoietic associated contig polynucleotide sequences disclosed in Table 1A. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1A, column 5, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.
- [046] The fifth column in Table 1A provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 4. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.
- [047] Column 6 in Table 1A lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In preferred embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1A. It will be appreciated that depending on the

analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

[048] Column 7 in Table 1A provides an expression profile and library code: count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1A, which can routinely be combined with the information provided in Table 4 and used to determine the normal or diseased tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of  $^{33}\text{P}$  dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. The sequences disclosed herein have been determined to be predominantly



expressed in immune/hematopoietic tissues, including normal and diseased immune/hematopoietic tissues (See Table 1A, column 7 and Table 4).

[049] Column 8 in Table 1A provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.

[050] A modified version of the computer program BLASTN (Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1A under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.

[051] Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIM™ (*supra*). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 9, Table 1A, labeled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification numbers (column 1), and provides a description of the associated disease in Column 2.

**TABLE 1B**

Clone ID NO:Z	SEQ ID NO:X	CONTIG ID:	BAC ID: A	SEQ ID NO:B	EXON From-To
HAMHB21	11	961376	AL035530	19515	1-137 465-2035 2761-2939 3499-3663 3841-4296 5031-5501 5707-5905 5946-6330 6790-6899 6957-7401 7628-7818 7889-10548
HAMHB21	11	961376	AL035530	19516	1-577
HASAX16	12	573692	AL358796	19517	1-1065
HASAX16	12	573692	AL356513	19518	1-1281
HASAX16	12	573692	AL358796	19519	1-964
HASAX16	12	573692	AL356513	19520	1-540
HASAX16	12	573692	AL356513	19521	1-967
HASAY74	13	526312	AC006479	19522	1-1081
HASAY74	13	526312	AC006479	19523	1-1052
HASAY74	13	526312	AC006479	19524	1-117
HASAY89	14	958768	AC012580	19525	1-874
HASAY89	14	958768	AL133502	19526	1-874
HASAY89	14	958768	AC012580	19527	1-87
HASAY89	14	958768	AC012580	19528	1-1034 1426-2177
HASAY89	14	958768	AL133502	19529	1-1034 1426-2177
HASAY94	15	521835	AC022702	19530	1-220 2365-2620 2992-3310 3432-3987 4545-5235 5266-5325 5814-6468 6801-6965 7327-7763 7979-8172
HASAY94	15	521835	AC025796	19531	1-272
HASAY94	15	521835	AC024998	19532	1-272
HASAY94	15	521835	AL365438	19533	1-272
HASAY94	15	521835	AL390122	19534	1-272
HASAY94	15	521835	AL133216	19535	1-306 1488-1890 2450-2722 3082-3400 3526-4081 4304-5314
HASAY94	15	521835	AF198096	19536	1-308 1490-1896 2457-2728 2816-3407 3532-4087

					4313-5008 5584-6209
HASAY94	15	521835	AC024998	19537	1-592
HASAY94	15	521835	AC022702	19538	1-316
HASAY94	15	521835	AC025796	19539	1-592
HASAY94	15	521835	AL365438	19540	1-591
HASAY94	15	521835	AL390122	19541	1-592
HASAY94	15	521835	AL133216	19542	1-750
HASAY94	15	521835	AL133216	19543	1-138 734-1117 1716-2301 2496-3003 3142-3588 5476-6185 6679-7322 7428-7952 8163-8628 9071-9154 9380-9538 10422-10640 10673-10765 10780-10828 11018-11735 12735-13548 13651-14193 14663-14949 15056-15454 17688-18060 19315-19659
HASAY94	15	521835	AF198096	19544	1-2408
HASAY94	15	521835	AF198096	19545	1-373
HBCAL39	17	964871	AL023808	19546	1-606
HBCAL39	17	964871	AL354975	19547	1-609
HBCAL39	17	964871	AL355583	19548	1-609
HBCAL39	17	964871	AL117337	19549	1-607
HBCAL39	17	964871	AL161931	19550	1-607
HBCAL39	17	964871	AL022345	19551	1-83 1585-1635 1808-2378 5485-5902 6116-6277 8376-8779 8822-8972 9168-9821 11260-11538 13579-13698 17448-17520 17571-17848 18839-19282 19624-20151 20479-21084 21175-21448 32819-33061 34887-35180 35454-36250 37565-38021 38576-38855

					40356-40851 40884-41362 43851-44422 45111-46319 46743-49458 50723-51179 52126-52399 53142-53345 55328-55452 55462-56374 58253-58708
HBCAL39	17	964871	AF205588	19552	1-607
HBCAL39	17	964871	AL354975	19553	1-274
HBCAL39	17	964871	AL023808	19554	1-528
HBCAL39	17	964871	AL354975	19555	1-528
HBCAL39	17	964871	AL355583	19556	1-274
HBCAL39	17	964871	AL355583	19557	1-528
HBCAL39	17	964871	AL117337	19558	1-273
HBCAL39	17	964871	AL117337	19559	1-526
HBCAL39	17	964871	AL161931	19560	1-273
HBCAL39	17	964871	AL161931	19561	1-526
HBCAL39	17	964871	AL022345	19562	1-465
HBCAL39	17	964871	AF205588	19563	1-526
HBCAL39	17	964871	AF205588	19564	1-273
HBCAR79	19	573989	AC021215	19565	1-432
HBCAT17	21	503573	AC011448	19566	1-874
HBCAT17	21	503573	AC011448	19567	1-749
HBCAT63	22	573993	AL133243	19568	1-236
HBCAT63	22	573993	AL133243	19569	1-364
HBCAT63	22	573993	AL133243	19570	1-141
HBCBX12	24	861018	AC068475	19571	1-70 163-330 651-994 1105-1272 1372-1586 2253-2908 2995-3524 3711-4406 4418-4480 4581-5218 5621-5829 6007-6286
HBCBX12	24	861018	AC005954	19572	1-91 893-1009 1323-1695 1856-2422 3548-3650 3665-4010 4965-5170 5288-5397 6874-7000 7283-7430 7520-7600 7693-7860 8181-8524 8634-8807 8902-9116

					9783-10438 10525-11054 11241-11936 11948-12010 12111-12748 13154-13362 13540-13833 14748-14851 14928-15142 15543-15616 17091-17240 17351-18020 18331-18662 19524-19871 19999-20209 20570-20670 20861-21075 22489-22727 22961-23073 25307-25360 29573-29961 31051-31168
HBCBX12	24	861018	AC005954	19573	1-131
HBDAC79	26	935414	AP001785	19574	1-99 368-765 963-1141 1966-2078 2175-2597 3058-3200 3479-3686 4113-4631 4727-5095 5187-5344 5973-6073 6176-7972 8126-9308
HBDAC79	26	935414	AP001785	19575	1-224
HBDAC79	26	935414	AP001785	19576	1-428
HBDAD04	27	614849	AC055822	19577	1-970
HBDAD04	27	614849	AC055822	19578	1-424
HBDAD04	27	614849	AC055822	19579	1-281
HBDADF51	28	725481	AC041031	19580	1-709
HBDADF51	28	725481	AC012314	19581	1-859 928-1588 2180-2459 2554-2831 2984-3375 3783-4571 4867-5280 5713-7103
HBDADF51	28	725481	AC010492	19582	1-859 928-1588 2180-2459 2553-2830 2983-3374 3782-4570 4866-5279

					5712-7102
HBDASF1	28	725481	AC012314	19583	1-428
HBDASF1	28	725481	AC010492	19584	1-428
HBDASF61	29	864338	AC003963	19585	1-1249
HBDASF61	29	864338	AC003963	19586	1-582
HBDASF61	29	864338	AC003963	19587	1-106
HBJAB59	30	557972	AC073349	19588	1-596
HBJAB59	30	557972	AC073349	19589	1-107
HBJAB59	30	557972	AC073349	19590	1-608
HBJAC23	31	529753	AC008013	19591	1-37 103-661 1556-1903 1956-2579 2645-3136 3489-3537 4511-4666 5208-5598 5932-6495 6523-7338 8399-8495 9972-10388 10578-11240 11254-11411 11711-11799 12318-12567 13065-13804 13950-14573 15144-15404 16572-16810 17843-17999 18506-18812 18839-19318 20897-21290 21743-22162 22280-23030
HBJAC23	31	529753	AC006432	19592	1-151 694-1084 1418-1981 2009-2823 3503-3599 5071-5487 5677-6339 6355-6510 6809-6897 7416-7665 8157-8919 9065-9688 10259-10519 11692-11930 12638-12770 12941-13097 13610-13902 13943-14422 15994-16388 16841-17233 17379-18129
HBJAC23	31	529753	AC008013	19593	1-294

HBJAC23	31	529753	AC008013	19594	1-289 692-1099 1395-1823 2203-2837 3577-4809 4987-5449 5855-6157 6332-6552 6672-6725 6773-6994 7254-7358 7391-7785 7880-8597 10291-10690 10700-11175 11393-11530 11644-11749
HBJAC23	31	529753	AC006432	19595	1-290
HBJAG72	32	722723	AC022533	19596	1-479
HBJAG72	32	722723	AC068898	19597	1-479
HBJAG72	32	722723	AC022533	19598	1-140
HBJAG72	32	722723	AC068898	19599	1-140
HBJAJ75	34	953840	AL133163	19600	1-98 211-417 784-1004 1875-2071 2745-2913 3205-4214 4242-4552 4695-5574 6331-6850 7048-7631 7696-8408 8763-8873 8944-10131 10166-10740
HBJAJ75	34	953840	AL133163	19601	1-535
HBJAJ85	35	675904	AC002450	19602	1-117
HBJAJ85	35	675904	AC002450	19603	1-894
HBJAJ85	35	675904	AC002450	19604	1-501
HBJAV57	36	527998	AC004976	19605	1-140 348-434 2467-2856 3263-3461 4014-4463 4995-5067 6578-6638 7115-7236
HBJAV57	36	527998	AC004976	19606	1-273
HBJAY91	38	828026	AC067953	19607	1-341
HBJAY91	38	828026	AC067953	19608	1-180
HBJAY91	38	828026	AC067953	19609	1-364
HBJBM14	39	781398	AC022239	19610	1-407
HBJBM14	39	781398	AC022239	19611	1-463
HBJBM14	39	781398	AC022239	19612	1-663
HBJBU55	41	527112	AC024631	19613	1-580
HBJBU55	41	527112	AC024631	19614	1-103

HBJCD43	42	714390	AC013726	19615	1-76 903-1151 6010-6078 6161-6277 8977-9064 9732-9789 10007-10050 10340-10668 10685-10790 11749-11985 13579-13684 14185-14277 16029-16442 17116-17154
HBJCD43	42	714390	AC013726	19616	1-181 186-409
HBJCD43	42	714390	AC013726	19617	1-315
HBJCJ68	44	823468	AC022827	19618	1-223
HBJCJ68	44	823468	AC025429	19619	1-223
HBJCJ68	44	823468	AC022827	19620	1-255
HBJCJ68	44	823468	AC022827	19621	1-331
HBJCJ68	44	823468	AC025429	19622	1-331
HBJCJ68	44	823468	AC025429	19623	1-254
HBJDL73	48	531104	AC073041	19624	1-80 1609-2611 2813-3040 3929-4450 5011-5181 6243-6662 7347-7904
HBJDL73	48	531104	AC007401	19625	1-115 615-834 2847-2983 6954-6980 7541-7661 9579-9723 12147-12951 13592-13749 17487-18023 23251-23354 24659-24888 25992-26409 30147-30227 31757-32759 32961-33188 34077-34598 35159-35329 36391-36810 37495-39032 39741-42310 42460-42939 43671-44248 44277-44792 46043-46323 46392-47319
HBJDO70	50	752830	AC026134	19626	1-539
HBJDO70	50	752830	AC026134	19627	1-169



HBJDO70	50	752830	AC026134	19628	1-421
HBJDP32	51	573846	AC046176	19629	1-2934
HBJDP32	51	573846	AC046176	19630	1-357
HBJDP41	52	494836	AC015764	19631	1-90 1233-1633 2222-2584 3024-3326 3819-3944 4361-4505
HBJDP41	52	494836	AC011667	19632	1-138 1281-1681 2270-2632 3070-3372 3865-3990 4407-4644 8378-8745 8970-10143 10599-10746 11435-11585 11809-12440 12785-14150
HBJDP41	52	494836	AC012052	19633	1-401
HBJDP41	52	494836	AC012052	19634	1-363
HBJDT47	55	573728	AC016555	19635	1-330
HBJDT47	55	573728	AC010243	19636	1-330
HBJDT47	55	573728	AC010897	19637	1-330
HBJDW36	57	573847	AC023933	19638	1-460
HBJDW36	57	573847	AC023933	19639	1-231
HBJDW36	57	573847	AC023933	19640	1-311
HBJDX18	58	795732	AC007546	19641	1-103 1091-1218 1856-2074 2112-2398 2749-2937 4357-4400 5823-5913 6287-6977 7105-7443 8618-8818 9074-9299 10264-12381 12541-13026 13249-13333 13355-14023 14447-14788 14908-15500 15562-16612 17335-17834 18610-18726 21062-21312 21764-21927 24230-24297 25325-27507 27761-28166 28198-28323 29007-30428 31322-31453

					32388-32501 36331-36501
HBJDX18	58	795732	AC040979	19642	1-691 819-1158 2333-2533 2789-3014 3110-3211 3641-6097 6257-7059 7071-7662
HBJDX18	58	795732	AC007546	19643	1-258
HBJDX18	58	795732	AC040979	19644	1-284
HBJDX18	58	795732	AC007546	19645	1-143 204-922
HBJEA22	60	674872	AC018393	19646	1-382
HBJEA22	60	674872	AC023051	19647	1-382
HBJEA22	60	674872	AC018393	19648	1-333
HBJEA22	60	674872	AC023051	19649	1-333
HBJEA25	61	589249	AC016153	19650	1-76 255-413 485-549 1027-1356 1650-1744 1873-1996 2718-2802 2850-3420 3710-4290 4976-5599 5718-6368 6700-6837 7237-7349
HBJEA44	62	973376	AC069385	19651	1-515
HBJEA65	63	934994	AL031589	19652	1-1069
HBJEA65	63	934994	AL031589	19653	1-318
HBJED66	65	787251	AC023043	19654	1-400
HBJED66	65	787251	AP001321	19655	1-400
HBJED66	65	787251	AP001155	19656	1-400
HBJED66	65	787251	AP001158	19657	1-400
HBJED66	65	787251	AP001321	19658	1-112
HBJED66	65	787251	AP001155	19659	1-451 491-1227 2776-3139 3477-3947 4551-4788
HBJED66	65	787251	AP001321	19660	1-451 491-1227 2776-3139 3477-3947 4550-4787
HBJED66	65	787251	AP001158	19661	1-450 490-1226 2775-3138 3476-3946 4549-4786
HBJED66	65	787251	AP001155	19662	1-112
HBJED66	65	787251	AP001158	19663	1-112
HBJEE29	66	888625	AL035652	19664	1-1667

HBJEE29	66	888625	AL035652	19665	1-530
HBJEE29	66	888625	AL035652	19666	1-242
HBJEI42	69	669495	AC073917	19667	1-645
HBJEI42	69	669495	AC010191	19668	1-645
HBJEI42	69	669495	AC073532	19669	1-645
HBJEI42	69	669495	AC073917	19670	1-167
HBJEI42	69	669495	AC073917	19671	1-383
HBJEI42	69	669495	AC010191	19672	1-167
HBJEI42	69	669495	AC073532	19673	1-383
HBJEI42	69	669495	AC010191	19674	1-382
HBJEI42	69	669495	AC073532	19675	1-111
HBJEJ21	70	671201	AC008449	19676	1-302
HBJEJ21	70	671201	AC008648	19677	1-302
HBJEJ21	70	671201	AC008449	19678	1-293
HBJEJ21	70	671201	AC008449	19679	1-331
HBJEJ21	70	671201	AC008648	19680	1-327
HBJEJ21	70	671201	AC008648	19681	1-291
HBJEJ29	71	693490	AC002126	19682	1-432
HBJEJ29	71	693490	AC002126	19683	1-415
HBJEJ83	72	847920	AC009970	19684	1-687
HBJEJ83	72	847920	AC040935	19685	1-687
HBJEJ83	72	847920	AC009970	19686	1-377
HBJEJ83	72	847920	AC009970	19687	1-380
HBJEJ83	72	847920	AC040935	19688	1-377
HBJEJ83	72	847920	AC040935	19689	1-380
HBJEO29	73	693491	AC011276	19690	1-646
HBJEO29	73	693491	AC009557	19691	1-644
HBJEO29	73	693491	AC011276	19692	1-578
HBJEO29	73	693491	AC009557	19693	1-324
HBJEO29	73	693491	AC009557	19694	1-441
HBJEP15	74	847843	AC005580	19695	1-394
HBJEP73	75	764573	AC073066	19696	1-314
HBJER19	76	953804	AC009118	19697	1-374
HBJES44	77	715846	AC034199	19698	1-723
HBJES44	77	715846	AC034199	19699	1-540
					851-1144
					1164-1646
					1871-3258
					3619-4160
					4216-4290
					4715-5577
					7379-7476
					8023-8700
					8786-8852
					8970-9054
					9100-9487
					10513-10885
					12867-12891
					13114-13224
					14721-14752
					16197-16933
					17094-17635
					17691-17821
					18749-19392
					20883-21548
					22494-22739

					23284-24570 24971-25301 25676-26051 27036-28731
HBJES44	77	715846	AC034199	19700	1-3850
HBJET94	79	794343	AL133485	19701	1-272
HBJET94	79	794343	AL133485	19702	1-174
HBJET94	79	794343	AL133485	19703	1-422
HBJEW15	80	507534	AC010618	19704	1-416 2674-2762
HBJEW15	80	507534	AC010618	19705	1-134
HBJEW15	80	507534	AC010618	19706	1-1447
HBJEZ09	81	573781	AC026110	19707	1-304
HBJEZ09	81	573781	AC010204	19708	1-304
HBJEZ09	81	573781	AC026110	19709	1-309
HBJEZ09	81	573781	AC026110	19710	1-291
HBJEZ09	81	573781	AC010204	19711	1-291
HBJEZ09	81	573781	AC010204	19712	1-311
HBJEZ16	82	421567	AL158163	19713	1-145 1576-1931 2612-2916 4117-4471 5006-5270
HBJEZ16	82	421567	AL158163	19714	1-892
HBJEZ39	83	690479	AC068085	19715	1-438
HBJEZ39	83	690479	AC068085	19716	1-634 690-747
HBJFJ53	85	573806	AC010736	19717	1-423 433-814
HBJFJ53	85	573806	AC010736	19718	1-169
HBJFK55	86	625315	AC009116	19719	1-374
HBJFK55	86	625315	AC009116	19720	1-401
HBJFK55	86	625315	AC009116	19721	1-258
HBJFL49	87	573970	AC063939	19722	1-428
HBJFP58	88	738298	AC069475	19723	1-122 261-484
HBJFV59	90	573747	AL121585	19724	1-1187
HBJFV59	90	573747	AL121585	19725	1-373
HBJFV59	90	573747	AL121585	19726	1-618
HBJFW10	91	878778	AC027538	19727	1-466
HBJFW10	91	878778	AC010770	19728	1-466
HBJFW10	91	878778	AC012100	19729	1-466
HBJFW20	93	573755	AC024673	19730	1-323
HBJFW20	93	573755	AC024673	19731	1-723
HBJFW50	94	571351	AL159977	19732	1-493
HBJFW50	94	571351	AL354879	19733	1-493
HBJFW50	94	571351	AL159977	19734	1-1712
HBJFW55	95	526682	AC007068	19735	1-878
HBJFW55	95	526682	AC007068	19736	1-367
HBJFW68	96	573766	AC024283	19737	1-309
HBJFW68	96	573766	AL358118	19738	1-309
HBJFW68	96	573766	AC024283	19739	1-291
HBJFW68	96	573766	AL358118	19740	1-84
HBJFW68	96	573766	AC024283	19741	1-84
HBJFW68	96	573766	AL358118	19742	1-301
HBJFY40	100	574095	AL157786	19743	1-466

HBJFZ21	101	671191	AC025698	19744	1-238
HBJFZ21	101	671191	AC025698	19745	1-299
HBJFZ82	104	799685	AC010645	19746	1-1412
HBJFZ82	104	799685	AC010645	19747	1-1261
HBJGU70	108	864063	AC007897	19748	1-844
HBJGU70	108	864063	AC022221	19749	1-852
HBJGU78	109	920821	AC004031	19750	1-93 2963-3611 4073-4400 5450-5677 6354-6505 7666-7726 8063-8297 8342-9068 10411-10884 11187-11272 11986-12402 13606-13851 15238-15358 16262-16453 16496-16995 17115-18395 18440-19183
HBJGU78	109	920821	AC004031	19751	1-1144
HBJGV17	110	662725	AL353762	19752	1-498
HBJGV17	110	662725	AC016875	19753	1-498
HBJGV17	110	662725	AL160400	19754	1-498
HBJGV17	110	662725	AL353762	19755	1-233
HBJGV17	110	662725	AC016875	19756	1-233
HBJGV17	110	662725	AL160400	19757	1-233
HBJGV17	110	662725	AL353762	19758	1-609
HBJGV17	110	662725	AC016875	19759	1-609
HBJGV17	110	662725	AL160400	19760	1-609
HBJGV22	111	613781	AC022911	19761	1-104 830-1011 3820-4373 4806-11538
HBJGV22	111	613781	AC011726	19762	1-104 830-1011 3820-4350 4806-11538 11548-12020 12024-12350 12414-12689 14228-14715 16787-17694 17790-17959 18231-18469 18706-18850 19239-22713
HBJGV22	111	613781	AC011726	19763	1-297
HBJGV32	112	699075	AC009634	19764	1-515
HBJGV32	112	699075	AC073268	19765	1-515
HBJGV32	112	699075	AC011721	19766	1-515
HBJGV32	112	699075	AC009634	19767	1-267
HBJGV32	112	699075	AC073268	19768	1-267

HBJGV32	112	699075	AC009634	19769	1-600 988-1537
HBJGV32	112	699075	AC011721	19770	1-600 988-1537
HBJGV32	112	699075	AC011721	19771	1-267
HBJHG04	113	836184	AC023786	19772	1-280
HBJHG04	113	836184	AC023786	19773	1-1165 1586-1624 1808-2761 3231-3329 3534-7009 7036-8261
HBJHG76	114	970826	AC008282	19774	1-489
HBJHG76	114	970826	AC008282	19775	1-132
HBJHI28	115	686278	AC025631	19776	1-298 517-673 1415-1852 1943-4455 4661-7352 7756-8267 10857-11392 12124-12168 13434-13859 17669-17979
HBJHI28	115	686278	AL391060	19777	1-2513
HBJHI28	115	686278	AL035410	19778	1-443 604-760 1167-1666 1722-1786 2577-3250 3362-3522 4704-6294 6874-7170 7576-7704 8744-9106 9143-9447 10052-10697 10851-11007 11749-12186 12277-14790 14996-17687
HBJHI28	115	686278	AL391060	19779	1-327
HBJHI28	115	686278	AL035410	19780	1-512
HBJHI44	116	621723	AC023648	19781	1-677 702-1145 2242-2473 2508-3325 3516-3697 3760-3877 4396-5312 5448-6191 6506-6618 6695-8173
HBJHI44	116	621723	AC023648	19782	1-274
HBJHM57	118	973257	AC055803	19783	1-539
HBJHM57	118	973257	AC055803	19784	1-427
HBJHM57	118	973257	AC055803	19785	1-274

HBJHM76	119	715512	AL118558	19786	1-380
HBJHM76	119	715512	AL118558	19787	1-557 745-946
HBJHM76	119	715512	AL118558	19788	1-386
HBJHO11	121	964943	AC046185	19789	1-440 462-592 848-1441
HBJHO11	121	964943	AC018571	19790	1-440 462-592 848-1441
HBJHO11	121	964943	AC015651	19791	1-440 462-592 848-1441
HBJHO11	121	964943	AC046185	19792	1-1052 1137-1554 1594-1822 2098-2460
HBJHO11	121	964943	AC018571	19793	1-619
HBJHO11	121	964943	AC018571	19794	1-1052 1137-1554 1594-1822 2098-2460
HBJHO11	121	964943	AC015651	19795	1-619
HBJHO11	121	964943	AC015651	19796	1-1052 1137-1554 1594-1822 2098-2459
HBJHO60	122	975186	AL121820	19797	1-403
HBJHO60	122	975186	AL121820	19798	1-455
HBJHR56	123	686717	AC026328	19799	1-707
HBJHR56	123	686717	AC011326	19800	1-707
HBJHR56	123	686717	AC026328	19801	1-339
HBJHR56	123	686717	AC026328	19802	1-102
HBJHR56	123	686717	AC011326	19803	1-102
HBJHR56	123	686717	AC011326	19804	1-339
HBJHV93	125	881606	AC027557	19805	1-662
HBJHV93	125	881606	AL356262	19806	1-662
HBJHV93	125	881606	AC027557	19807	1-1228
HBJHV93	125	881606	AL356262	19808	1-1228
HBJHX08	126	958970	AL159164	19809	1-384
HBJHX08	126	958970	AL121941	19810	1-384
HBJHX08	126	958970	AL159164	19811	1-440
HBJHX08	126	958970	AL121941	19812	1-440
HBJHZ03	127	923733	AC027008	19813	1-562
HBJHZ03	127	923733	AC027008	19814	1-264
HBJHZ08	128	958969	AL157935	19815	1-1065
HBJHZ08	128	958969	AL157935	19816	1-758
HBJHZ08	128	958969	AL157935	19817	1-1031
HBJA19	129	920881	AL359880	19818	1-693
HBJA92	130	494812	AC007005	19819	1-426
HBJA92	130	494812	AC007005	19820	1-479
HBJA92	130	494812	AC007005	19821	1-924
HBJD21	131	670642	AC011612	19822	1-555
HBJD21	131	670642	AC073099	19823	1-555
HBJD21	131	670642	AC011612	19824	1-152 869-1054

					1863-2288 2723-3094 3356-3435 4142-4420 4694-5758 6000-6152 6459-6741 7520-8689
HBJD21	131	670642	AC011612	19825	1-561
HBJD21	131	670642	AC073099	19826	1-561
HBJD21	131	670642	AC073099	19827	1-152 869-1054 1863-2284 2719-3090 3343-3431 4138-4416 4690-5753 5995-6147 6454-6736 7515-8684 9020-9146 9249-9406 10217-10749 12691-13274 13828-14038 14363-14812 15918-16613 16764-16909 17946-18246 19921-20386 22275-22898 23842-25577
HBJL11	133	966701	AC007564	19828	1-475
HBJL11	133	966701	AC007564	19829	1-476
HBJL53	135	971136	AL356273	19830	1-535
HBJL53	135	971136	AL356273	19831	1-320
HBJL53	135	971136	AL356273	19832	1-166 514-644 1028-1685 1982-3144 3435-4099 4640-4876 5013-5854 5857-6266 6404-6685 7094-7657 7772-7976 8288-8547 8731-9316 9327-11445
HBJL75	136	698405	AC069208	19833	1-414
HBJL75	136	698405	AC069208	19834	1-623
HBJL88	137	721859	AL158801	19835	1-810
HBJL88	137	721859	AL158801	19836	1-514 551-3133
HBJO70	138	725097	AL353721	19837	1-236
HBJO70	138	725097	AL135929	19838	1-236



HBJIO70	138	725097	AL353721	19839	1-223 233-535
HBJIO70	138	725097	AL135929	19840	1-224 234-533
HBJIO79	139	774812	AC012057	19841	1-431
HBJIO79	139	774812	AC012057	19842	1-443
HBJIR58	140	735365	AC015659	19843	1-430
HBJIR58	140	735365	AC015659	19844	1-539
HBJIR58	140	735365	AC015659	19845	1-249
HBJIY20	141	669519	AC027646	19846	1-165 261-429
HBJIY86	142	725084	AC024723	19847	1-683
HBJIY86	142	725084	AL161732	19848	1-2138 3314-3412 4672-5058 5894-6130 6716-7111 8072-8210 8653-8837 8988-9273 9904-10283 10570-11494 11529-12260 14872-14970 15221-15304 19231-19387 19728-20409 20479-20913 22756-23365 23383-23843 24082-26110
HBJIY86	142	725084	AC024723	19849	1-182 336-621 1252-1631 1918-2841 2876-3607 6218-6316 6567-6650 10577-10733
HBJIY86	142	725084	AC024723	19850	1-431
HBJIY86	142	725084	AL161732	19851	1-84
HBJJB02	143	919379	AC007488	19852	1-734
HBJJB02	143	919379	AC037196	19853	1-447
HBJJB02	143	919379	AC007488	19854	1-149
HBJJB02	143	919379	AC007488	19855	1-119
HBJJB02	143	919379	AC037196	19856	1-119
HBJJB02	143	919379	AC037196	19857	1-484
HBJJB04	144	878974	AL139807	19858	1-1337
HBJJB04	144	878974	AL139807	19859	1-487
HBJJB11	145	965016	AC046198	19860	1-892
HBJJB11	145	965016	AC007319	19861	1-892
HBJJB11	145	965016	AC046198	19862	1-570
HBJJB11	145	965016	AC007319	19863	1-570
HBJJB26	147	681342	AC006391	19864	1-228 1393-1830 2379-2510

HBJJB26	147	681342	AL357494	19865	1-228 1393-1830 2379-2510
HBJJB26	147	681342	AC006391	19866	1-242
HBJJB26	147	681342	AL357494	19867	1-516
HBJJB26	147	681342	AL357494	19868	1-242
HBJJB40	148	710873	AC011319	19869	1-681
HBJJB61	149	741615	AL391121	19870	1-575
HBJJB61	149	741615	AL391121	19871	1-162
HBJJB74	151	765406	AL139242	19872	1-438
HBJJB74	151	765406	AL139242	19873	1-386
HBJJB78	152	489438	AL160155	19874	1-438
HBJJB78	152	489438	AL160155	19875	1-607
HBJJD31	153	691780	AC024913	19876	1-480
HBJJD31	153	691780	AC007957	19877	1-1043
HBJJD31	153	691780	AC023490	19878	1-480
HBJJD31	153	691780	AC024913	19879	1-509
HBJJD31	153	691780	AC007957	19880	1-305
HBJJD31	153	691780	AC007957	19881	1-131
HBJJD31	153	691780	AC023490	19882	1-509
HBJJH48	155	721473	AL137881	19883	1-526
HBJJN13	156	915977	AC012459	19884	1-444 1193-1285 2895-3316 5764-5869 6023-6285 7002-7589 8350-10088
HBJJN13	156	915977	AC012459	19885	1-2872
HBJJS46	158	718894	AC026504	19886	1-775
HBJJS46	158	718894	AC022936	19887	1-775
HBJJS46	158	718894	AC026504	19888	1-472
HBJJS46	158	718894	AC022936	19889	1-507
HBJJU62	159	664298	AC053504	19890	1-330 585-1004 1930-2208
HBJJU62	159	664298	AL365356	19891	1-705 960-1379 2305-2731 4018-4371 5893-5989 6384-10554
HBJJU62	159	664298	AL365356	19892	1-451 4551-4791 5447-5676 8863-8925
HBJJU81	160	671611	AC009648	19893	1-90 545-660 1923-2668 2696-3201 3212-3569 3813-4247 4546-4980 6316-6455 7858-8124 8670-9210

					9279-9580 11208-11789
HBJJU81	160	671611	AC010815	19894	1-106 1509-1782 2335-2876 2933-3245 4873-5454
HBJJU81	160	671611	AP002502	19895	1-388
HBJJU81	160	671611	AP002007	19896	1-106 1612-1759 2336-2880 2937-3249 4877-5458
HBJJU81	160	671611	AP002502	19897	1-313
HBJJX04	161	949592	AC025164	19898	1-1683
HBJJX04	161	949592	AC012013	19899	1-1683
HBJJX04	161	949592	AC025164	19900	1-450
HBJJX04	161	949592	AC012013	19901	1-450
HBJJX11	162	847854	AC022146	19902	1-419
HBJJX11	162	847854	AC022146	19903	1-228
HBJJX11	162	847854	AC022146	19904	1-252
HBJJX44	163	657242	AC015456	19905	1-550
HBJJX44	163	657242	AC009993	19906	1-3143
HBJJX44	163	657242	AC009993	19907	1-350
HBJKA75	164	682250	AL360001	19908	1-259
HBJKA75	164	682250	AL139817	19909	1-259
HBJKA75	164	682250	AL139817	19910	1-731
HBJKD68	168	676330	AP002388	19911	1-257
HBJKE63	169	744847	AC016405	19912	1-823
HBJKE63	169	744847	AC016405	19913	1-711
HBJKE63	169	744847	AC016405	19914	1-760
HBJKF06	170	935033	AC020605	19915	1-917
HBJKF06	170	935033	AC010353	19916	1-917
HBJKF06	170	935033	AC020605	19917	1-298
HBJKF06	170	935033	AC010353	19918	1-298
HBJKF86	171	714449	AL160287	19919	1-453
HBJKF86	171	714449	AL355798	19920	1-453
HBJKF86	171	714449	AL160287	19921	1-171
HBJKF86	171	714449	AL355798	19922	1-857
HBJKF86	171	714449	AL160287	19923	1-857
HBJKI26	172	489160	AC048342	19924	1-931
HBJKI26	172	489160	AC025077	19925	1-931
HBJKI26	172	489160	AC018658	19926	1-931
HBJKI26	172	489160	AC048342	19927	1-457
HBJKI26	172	489160	AC025077	19928	1-457
HBJKI26	172	489160	AC018658	19929	1-457
HBJKI26	172	489160	AC018658	19930	1-412
HBJLB78	173	588085	AC010832	19931	1-537
HBJLB78	173	588085	AC011962	19932	1-407
HBJLB78	173	588085	AC011962	19933	1-104 848-949 965-1052 1652-1886 2091-2602 2973-5283 5421-5922

					6712-7152 7172-7330
HBJLC51	174	784830	AC022399	19934	1-734 1441-2849
HBJLC51	174	784830	AP000893	19935	1-735 1442-2850
HBJLC51	174	784830	AP002397	19936	1-971
HBJLD73	176	765356	AC024661	19937	1-428
HBJLD73	176	765356	AC055739	19938	1-424
HBJLD73	176	765356	AC068978	19939	1-424
HBJLD73	176	765356	AC055739	19940	1-197
HBJLD73	176	765356	AC068978	19941	1-197
HBJLE82	177	735748	AC069514	19942	1-516
HBJLE82	177	735748	AC069514	19943	1-224
HBJLL07	179	952791	AL353800	19944	1-285
HBJLL07	179	952791	AL161721	19945	1-285
HBJLL07	179	952791	AL353800	19946	1-282
HBJLL07	179	952791	AL353800	19947	1-654
HBJLL07	179	952791	AL161721	19948	1-654
HBJLL07	179	952791	AL161721	19949	1-282
HBJLL13	180	656721	AC011618	19950	1-791
HBJLL13	180	656721	AC011618	19951	1-283
HBJLL13	180	656721	AC011618	19952	1-172
HBJLL18	181	665874	AP001122	19953	1-292
HBJLL18	181	665874	AP000712	19954	1-374
HBJLL18	181	665874	AP000920	19955	1-374
HBJLL18	181	665874	AP001535	19956	1-374
HBJLL18	181	665874	AP000712	19957	1-666
HBJLL18	181	665874	AP000920	19958	1-665
HBJLL18	181	665874	AP000712	19959	1-101
HBJLL18	181	665874	AP000920	19960	1-101
HBJLL18	181	665874	AP001535	19961	1-665
HBJLL18	181	665874	AP001535	19962	1-101
HBJLL28	182	847840	AC007952	19963	1-88
HBJLL28	182	847840	AL136171	19964	1-61
HBJLL28	182	847840	AC074121	19965	1-88
HBJLL28	182	847840	AC068626	19966	1-101
HBJLL28	182	847840	AC010550	19967	1-127
HBJLL28	182	847840	AC011962	19968	1-102
HBJLL28	182	847840	AC018498	19969	1-149
HBJLL57	183	734522	AC012146	19970	1-1233
HBJLP14	185	657747	AC010925	19971	1-380
HBJLP14	185	657747	AC010925	19972	1-393
HBJLR56	186	843811	AC073828	19973	1-230
HBJLR56	186	843811	AC026378	19974	1-917
HBJLR56	186	843811	AC074159	19975	1-918
HBJMA30	189	661665	AC010736	19976	1-864
HBJMA30	189	661665	AC010736	19977	1-349
HBJMA30	189	661665	AC010736	19978	1-103
HBJMA51	190	725095	AC048338	19979	1-194
HBJMA51	190	725095	AC048338	19980	1-26 34-111
HBJMA51	190	725095	AC048338	19981	1-370
HBJMC53	191	726491	AC018421	19982	1-323 530-1040

HBJMD71	192	760155	AC021004	19983	1-87 457-843 2491-2648 3010-3138 3298-3415 5407-5576 6017-6246 6273-6943 8244-8499 8758-12900
HBJMD71	192	760155	AC021004	19984	1-544
HBJMD74	193	975088	AC068352	19985	1-322
HBJMD74	193	975088	AC068352	19986	1-219
HBJME92	194	792110	AC025961	19987	1-464
HBJMF23	195	675692	AC000053	19988	1-392
HBJMF23	195	675692	AC002060	19989	1-392
HBJMF23	195	675692	AC000053	19990	1-376
HBJMF23	195	675692	AC000053	19991	1-324
HBJMF23	195	675692	AC002060	19992	1-376
HBJMF23	195	675692	AC002060	19993	1-324
HBJMF30	196	691179	AL359702	19994	1-2475 2748-2871 3036-3340 3487-3671 4509-4971 5075-5209 5415-6117 6418-7132 7164-8025
HBJMF30	196	691179	AL359702	19995	1-218
HBJMF47	197	720050	AC012192	19996	1-394
HBJMF47	197	720050	AC012192	19997	1-228
HBJMI76	198	720047	AC073440	19998	1-432
HBJMI76	198	720047	AP001544	19999	1-432
HBJMI76	198	720047	AP001548	20000	1-432
HBJMI76	198	720047	AP001493	20001	1-432
HBJMI76	198	720047	AP001399	20002	1-432
HBJMK34	199	935952	AL139242	20003	1-2041
HBJMK34	199	935952	AL139242	20004	1-72 570-814 1875-2040 3530-3978 5444-5652 7110-7613
HBJMK94	200	794129	AC009600	20005	1-387 675-940 4481-4582 5032-5404 7099-7273 8504-8804 8903-9406 9865-10093 11788-12044 13222-13642 14214-14391 15140-15246 15325-16200

					16259-16748
HBJML69	202	864004	AL031657	20006	1-692
HBJML69	202	864004	AL031657	20007	1-265
HBJML69	202	864004	AL031657	20008	1-416
HBJMM72	203	760833	AC023984	20009	1-114 908-1302 1819-1873 3447-3547 5920-6088 7953-8319
HBJMM72	203	760833	AC023984	20010	1-106
HBJMN75	204	699060	AC002368	20011	1-465
HBJMR15	206	964484	AC036162	20012	1-40 426-929 1022-2118
HBJMR15	206	964484	AP001089	20013	1-40 426-929 1022-2118
HBJMR15	206	964484	AP001089	20014	1-298 799-1156
HBJMR15	206	964484	AC036162	20015	1-298 799-1156
HBJMT52	208	726480	AC009118	20016	1-639
HBJMT52	208	726480	AC009118	20017	1-427
HBJMW20	210	669030	AL158161	20018	1-1504
HBJMW20	210	669030	AL158161	20019	1-293
HBJMW20	210	669030	AL158161	20020	1-432
HBJMX21	212	933143	AC044881	20021	1-389
HBJMX21	212	933143	AC026291	20022	1-389
HBJMX21	212	933143	AC044881	20023	1-610 661-1115
HBJMX21	212	933143	AC026291	20024	1-459
HBJMX21	212	933143	AC044881	20025	1-459
HBJMX21	212	933143	AC026291	20026	1-610 661-1114
HBJNC89	216	786707	AC020834	20027	1-355
HBJNC89	216	786707	AC020834	20028	1-1294
HBMBC35	220	921417	AC004702	20029	1-421
HBMBC35	220	921417	AC004702	20030	1-390
HBMBC35	220	921417	AC004702	20031	1-463
HBMBC91	221	506594	AC015624	20032	1-575
HBMBC91	221	506594	AC015627	20033	1-579
HBMBE84	223	578869	AC023231	20034	1-312
HBMBE84	223	578869	AC005905	20035	1-312
HBMBE84	223	578869	AC005905	20036	1-348
HBMBI06	227	935819	AC048340	20037	1-765
HBMBI06	227	935819	AC055713	20038	1-425
HBMBI06	227	935819	AC048340	20039	1-392
HBMBI06	227	935819	AC055713	20040	1-292 437-1518 1525-1830 2226-2268 3345-3485 3500-3535
HBMBI06	227	935819	AC055713	20041	1-392
HBMBN32	228	775670	AC012522	20042	1-910

					1322-1464 1582-1700 2188-2757 3153-3699 4380-4633 4668-5318 5364-5795 6463-6906 6951-10538 10622-10743 11799-12025
HBMBN32	228	775670	AC012522	20043	1-102
HBMBU24	234	677240	AP001886	20044	1-101 366-400
HBMBU24	234	677240	AP001273	20045	1-101 366-400
HBMBU24	234	677240	AP000792	20046	1-101 366-400
HBMBU38	235	531494	AC009954	20047	1-119 2533-3171 7440-7874 7900-8101 9579-10097 10101-10480 12544-13076 13492-13925 14097-14234 15243-15409 15833-16292 16625-17171 17667-18495
HBMBU38	235	531494	AL031259	20048	1-92 2508-3146 3292-3393 7418-7864 7890-8091 9569-10087 10091-10470 12547-13079 13495-13928 14104-14203 14254-14356 15241-15407 15829-16288 16621-17167 17663-18491
HBMBU38	235	531494	AC009954	20049	1-757 2509-2590 5403-6851 8080-8956 9234-9350 9536-9723
HBMBU38	235	531494	AC009954	20050	1-2944 3707-4265 5226-5330 5694-5783 6122-6823

					6968-7807 7809-8416 8585-9878
HBMBU38	235	531494	AL031259	20051	1-2941 3703-4261 5223-5327 5691-5780 6119-6820 6965-7804 7806-8413 8582-9872
HBMBU38	235	531494	AL031259	20052	1-756 2508-2589 5398-6846 8077-8954 9232-9348 9534-9721
HBMBY27	237	574803	AC026673	20053	1-409
HBMCA58	240	736084	AC074366	20054	1-513
HBMCA58	240	736084	AC011152	20055	1-513
HBMCA58	240	736084	AC011152	20056	1-159
HBMCD26	242	847826	AC073378	20057	1-341
HBMCD26	242	847826	AL158046	20058	1-761
HBMCD26	242	847826	AL158046	20059	1-753
HBMCD26	242	847826	AL158046	20060	1-448
HBMCD49	243	723005	AL355822	20061	1-347
HBMCD49	243	723005	AL355822	20062	1-320
HBMCE22	244	674659	AC019027	20063	1-789
HBMCE22	244	674659	AL122035	20064	1-795
HBMCE22	244	674659	AL122035	20065	1-331
HBMCE22	244	674659	AL122035	20066	1-924
HBMCH88	246	711318	AL358794	20067	1-360
HBMCH88	246	711318	AL358794	20068	1-88
HBMCQ14	248	658484	AL133551	20069	1-481 2685-3013 4209-4455 5412-5533 6734-6860 7208-7625 11276-12186 13459-13602 18077-18427 18722-18825 19945-20053 20698-21087 22136-22816 23378-23452 24583-24773 27452-27791 27805-28364 28583-29053 29390-29512 29807-30026 30904-31465 31593-33718
HBMCS34	249	703438	AL353801	20070	1-589
HBMCS34	249	703438	AL353801	20071	1-297



					371-646
HBMCS77	250	465070	AC068344	20072	1-491
HBMCS77	250	465070	AP002400	20073	1-121 673-805 2464-3083 3788-4651 4908-4990
HBMCS77	250	465070	AC068154	20074	1-492
HBMCS77	250	465070	AP001450	20075	1-132 1712-1830 3166-3329 5265-5445 5996-6129 7790-8409 9114-9977 10329-10408 11960-12502 13758-14136
HBMCS77	250	465070	AP001847	20076	1-132 1714-1832 3168-3331 5269-5446 5997-6129 7787-8406 9111-9974 10231-10324
HBMCS77	250	465070	AP001452	20077	1-132 1713-1831 3167-3330 5265-5445 5996-6129 7786-8405 9110-9973 10230-10322 11862-12404 13659-14387
HBMCS77	250	465070	AP001450	20078	1-391
HBMCS77	250	465070	AP001847	20079	1-391
HBMCS77	250	465070	AP001452	20080	1-391
HBMCU92	252	529580	AC023058	20081	1-516
HBMCU92	252	529580	AC024056	20082	1-1456 1897-2245 2315-2862 3701-3808 4102-4441 5439-6106
HBMCU92	252	529580	AC018506	20083	1-590 841-1404 1569-1630 3507-3624 5344-5700 5921-6112 6791-7053 7442-8012 8491-9098 9471-9927 10948-11053

					11380-11589 11740-12120 12368-12671 12827-13009 13622-13925 13932-14299 14680-15114 15978-16503 16708-18163 18604-18952 19022-19569 20408-20515 22146-22813
HBMCU92	252	529580	AC023058	20084	1-526
HBMCU92	252	529580	AC024056	20085	1-239
HBMCU92	252	529580	AC024056	20086	1-526
HBMCU92	252	529580	AC018506	20087	1-454
HBMCU92	252	529580	AC018506	20088	1-307
HBM CZ11	253	967099	AC015976	20089	1-315
HBM CZ11	253	967099	AC023925	20090	1-315
HBM CZ11	253	967099	AC015976	20091	1-442
HBM CZ11	253	967099	AC023925	20092	1-442
HBM CZ27	254	683436	AC026265	20093	1-259
HBM CZ32	255	855694	AC007204	20094	1-339
HBM CZ32	255	855694	AC007204	20095	1-450 607-1822
HBM CZ32	255	855694	AC007204	20096	1-1617
HBM DA51	256	691116	AC023188	20097	1-334
HBM DA51	256	691116	AC023188	20098	1-804
HBM DA51	256	691116	AC023188	20099	1-108 1869-3356
HBM DC03	257	924183	AC011721	20100	1-419
HBM DC03	257	924183	AC009634	20101	1-419
HBM DC03	257	924183	AC011721	20102	1-1207
HBM DC03	257	924183	AC009634	20103	1-283
HBM DC03	257	924183	AC011721	20104	1-283
HBM DC03	257	924183	AC009634	20105	1-1207
HBM DC16	258	888206	AL139288	20106	1-295
HBM DC16	258	888206	AL139288	20107	1-1066
HBM DD36	260	861576	AC027529	20108	1-317
HBM DD36	260	861576	AC025162	20109	1-317
HBM DD36	260	861576	AC027529	20110	1-314 352-575 577-1124 1171-1470 1649-1727 2141-2227 2318-2363
HBM DD36	260	861576	AC025162	20111	1-189 639-712 1030-1163 1598-1674 1754-2106 2133-2312 2537-2610 2807-2927

515

HBMD517	269	796050	AC068533	20130	1-262
HBMD517	269	796050	AC024641	20131	1-262
HBMD517	269	796050	AC068533	20132	1-337
HBMD564	270	746572	AC055755	20133	1-849 1460-1641 1683-2081 2658-3958 4464-4798
HBMD564	270	746572	AP000645	20134	1-861
HBMD564	270	746572	AC055755	20135	1-514
HBMD564	270	746572	AC055755	20136	1-460
HBMD564	270	746572	AP000645	20137	1-405 568-1081
HBMSB19	271	847800	AC026518	20138	1-290
HBMSB19	271	847800	AC026518	20139	1-307
HBMSK92	272	531156	AC011973	20140	1-402
HBMSK92	272	531156	AC040945	20141	1-402
HBMSK92	272	531156	AC016999	20142	1-125
HBMSO15	273	847795	AC024074	20143	1-471 486-1044
HBMSO15	273	847795	AC024074	20144	1-492
HBMSO39	274	531158	AC006504	20145	1-344
HBMSO39	274	531158	AC006504	20146	1-178
HBMTG05	276	932497	AC025806	20147	1-242
HBMTG05	276	932497	AC025806	20148	1-341
HBMTM75	277	574515	AL353602	20149	1-113
HBMTM75	277	574515	AF209070	20150	1-155 333-425
HBMTM75	277	574515	AF209070	20151	1-104
HBMTM75	277	574515	AF209070	20152	1-118
HBMTTP84	278	703844	AL137129	20153	1-1627
HBMTTP84	278	703844	AL137129	20154	1-421
HBMTTP84	278	703844	AL137129	20155	1-1156
HBMTW58	280	806670	AC008747	20156	1-357 465-798 820-1371 1637-1795 2334-2630 3104-3242 3286-3547 3979-4271 4486-6321 7000-7479
HBMTW58	280	806670	AC008747	20157	1-406
HBMTW58	280	806670	AC008747	20158	1-351
HBMTX84	282	537385	AL158213	20159	1-205
HBMTX84	282	537385	AL158213	20160	1-2127
HBMTY82	283	523728	AC036117	20161	1-274
HBMUA62	284	557828	AL138996	20162	1-757
HBMUA62	284	557828	AL138996	20163	1-412
HBMUD12	285	574796	AL122020	20164	1-328
HBMUD12	285	574796	AL122020	20165	1-251
HBMUG57	287	735024	AL136293	20166	1-916
HBMUG57	287	735024	AL136293	20167	1-528
HBMUG57	287	735024	AL136293	20168	1-268
HBMUH62	288	752244	AC008114	20169	1-167

					266-419 2777-3257 3605-4014 4557-4744 5409-5521 5634-6561 7699-8016
HBMUH62	288	752244	AC008114	20170	1-464
HBMUH62	288	752244	AC008114	20171	1-639
HBMUJ84	289	531159	AC027272	20172	1-1403
HBMUJ84	289	531159	AC016586	20173	1-1403
HBMUJ84	289	531159	AC027272	20174	1-156
HBMUJ84	289	531159	AC016586	20175	1-547
HBMUJ84	289	531159	AC027272	20176	1-547
HBMUJ84	289	531159	AC016586	20177	1-324
HBMUK59	290	712591	AC026786	20178	1-454
HBMUK59	290	712591	AC026786	20179	1-456
HBMUO12	293	417210	AL022313	20180	1-337 3275-3416 3702-3761 3789-4346 4678-4817 5426-5518 6130-6208 7676-8161 8344-8443 8722-8841 9247-10011 10488-10650 11981-12464 12622-12711 12791-13240 13285-13619 14613-15627 15868-16325 16558-17064 17148-17517 17623-17912 17963-18564
HBMUO12	293	417210	AL022313	20181	1-140
HBMUO90	294	928078	AC008567	20182	1-442 2267-2417 3346-3434 4656-4785 5340-5437 5697-5780 5811-6170 7555-7645 8982-9212 9435-10926
HBMUO90	294	928078	AC008567	20183	1-767
HBMUO90	294	928078	AC008567	20184	1-593 729-994
HBMUP35	295	531101	AC009130	20185	1-368
HBMUP35	295	531101	AC009093	20186	1-366
HBMUP35	295	531101	AC007615	20187	1-366
HBMUP35	295	531101	AC009093	20188	1-76

					171-599 2692-3263
HBMUP35	295	531101	AC007615	20189	1-76 171-599 2692-3263
HBMUT83	296	793052	AC017034	20190	1-228
HBMUT83	296	793052	AC017034	20191	1-163
HBMUV03	297	924916	AF216674	20192	1-587
HBMUV03	297	924916	AC051642	20193	1-587
HBMUV03	297	924916	AF216674	20194	1-1169
HBMUV03	297	924916	AC051642	20195	1-666
HBMUV03	297	924916	AF216674	20196	1-666
HBMUV03	297	924916	AC051642	20197	1-1169
HBMUY32	298	959968	AC073347	20198	1-402
HBMUY32	298	959968	AC073237	20199	1-404
HBMUY32	298	959968	AC073347	20200	1-368
HBMUY32	298	959968	AC073347	20201	1-1239
HBMUY32	298	959968	AC073237	20202	1-1238
HBMUY32	298	959968	AC073237	20203	1-368
HBMUZ96	299	574522	AC027436	20204	1-217
HBMUZ96	299	574522	AC026053	20205	1-217
HBMUZ96	299	574522	AC027436	20206	1-217
HBMUZ96	299	574522	AF161326	20207	1-217
HBMUZ96	299	574522	AC022262	20208	1-797 2417-2631 3781-3997 5774-5862 5864-6192 14342-14714 15388-15925 17245-17496 17801-18454 20879-21165 21765-22481 23649-24248 25816-25983 27115-27246 28306-28431 33092-33393 33904-34036 34043-34295 35283-35905 36805-36930 37389-37735 38208-38351 39019-39139 39211-39353
HBMUZ96	299	574522	AL020995	20209	1-797 2417-2632 3782-3998 5774-5862 5879-6191 14346-14718 15392-15929 17249-17500 17805-18458 20882-21168

					21768-22484 23652-24251 25819-25986 27118-27249 28309-28434 33096-33397 33908-34040 34047-34299 35287-35909 36809-36934 37393-37739 38212-38355 39024-39144 39216-39358
HBMUZ96	299	574522	AC026053	20210	1-89
HBMUZ96	299	574522	AF161326	20211	1-815
HBMUZ96	299	574522	AF161326	20212	1-798 2412-2633
HBMUZ96	299	574522	AC022262	20213	1-124
HBMUZ96	299	574522	AC022262	20214	1-756
HBMUZ96	299	574522	AL020995	20215	1-124
HBMUZ96	299	574522	AL020995	20216	1-756
HBMVA83	300	529815	AC022403	20217	1-67 656-941 1074-1158 1316-1408
HBMVA83	300	529815	AC027538	20218	1-67 656-941 1074-1158 1316-1521 2280-2736 4967-5092 5640-5689 5798-6065
HBMVA83	300	529815	AC022403	20219	1-457
HBMVA83	300	529815	AC027538	20220	1-172
HBMVA83	300	529815	AC022403	20221	1-192
HBMVA83	300	529815	AC027538	20222	1-192
HBMVE14	301	545170	AP000642	20223	1-154 320-1171 1194-1900 2734-3767
HBMVE14	301	545170	AP000585	20224	1-154 320-744 799-1172 1201-1907 2741-3865
HBMVE14	301	545170	AC011768	20225	1-147 723-1272 1330-1807 2396-2806 3301-3671 3965-4669 6926-7079 7245-8097 8120-8826 9660-10785

HBMVE14	301	545170	AC022845	20226	1-62 1250-1737 3246-3367 3667-4009 4978-5149 5327-5646 6950-7052 7210-7646 9352-9624 10200-10749 10807-11284 11873-12283 12777-13147 13441-14145 16403-16556 16722-17574 17597-18303 19137-20261
HBMVE14	301	545170	AC021329	20227	1-103 261-699 2404-2676 3252-3801 3859-4336 4925-5335 5830-6200 6494-7198 9455-9608 9774-10626 10649-11355 12190-13315
HBMVE14	301	545170	AC000585	20228	1-194
HBMVE14	301	545170	AC011768	20229	1-193
HBMVE14	301	545170	AC022845	20230	1-194
HBMVE14	301	545170	AC021329	20231	1-193
HBMVI79	302	781686	AC027687	20232	1-127 456-1085 1391-1501 1775-2091 2114-3123 3370-3480 3798-5339 5679-6396 6430-6953 6969-7520 8160-8414 8542-9736 9993-10695
HBMVI79	302	781686	AC020663	20233	1-2114 3690-3935 7390-7533 7970-8096 8425-9054 9616-10048 10083-11092 11339-11449 11767-13308 13648-14365



					14399-14725 15214-15489 16129-16383 16511-16946 16963-17705 17962-18664
HBMVI79	302	781686	AC027687	20234	1-129
HBMVI79	302	781686	AC020663	20235	1-542 751-879 977-1026 1110-1224 1608-1702 2721-2823 3173-3486 3540-3618 3649-4283 4305-4360 4542-4626 5423-5496 5565-5691
HBMVO02	304	920759	AL109839	20236	1-988
HBMVO02	304	920759	AL109839	20237	1-140
HBMVO02	304	920759	AL109839	20238	1-248
HBMWA31	305	529678	AC061707	20239	1-438 580-1572
HBMWA31	305	529678	AC061707	20240	1-174
HBMWA31	305	529678	AC061707	20241	1-153
HBMWA57	306	526863	AC002470	20242	1-463
HBMWA57	306	526863	AC002470	20243	1-273
HBMWA57	306	526863	AC002470	20244	1-559
HBMWI35	307	706033	AC018924	20245	1-1030 1587-1913 2071-2167 3478-3586
HBMWJ01	308	959223	AL162413	20246	1-319 1765-1899 3060-3199 3261-3298 3300-3513 4678-5485 7620-7747 8148-8250 8881-9328 9576-10100 10395-10448 11361-11786 14218-14541 15132-15580
HBMWJ01	308	959223	AC022702	20247	1-890 901-1702
HBMWJ01	308	959223	AC025796	20248	1-887 898-1705
HBMWJ01	308	959223	AC022702	20249	1-254
HBMWJ01	308	959223	AC022702	20250	1-239
HBMWJ01	308	959223	AC025796	20251	1-317
HBMWJ01	308	959223	AC025796	20252	1-113
HBMWL30	309	936058	AC009951	20253	1-336

HBMWL30	309	936058	AC009951	20254	1-489
HBMWL30	309	936058	AC009951	20255	1-307
HBMWL91	310	529837	AC011336	20256	1-216
HBMWL91	310	529837	AC009017	20257	1-216
HBMWL91	310	529837	AC011336	20258	1-1207
HBMWL91	310	529837	AC011336	20259	1-982
HBMWL91	310	529837	AC009017	20260	1-1464
HBMWQ85	311	765109	AC073949	20261	1-524
HBMWQ85	311	765109	AC010087	20262	1-583 2197-2888
HBMWQ85	311	765109	AC073949	20263	1-404
HBMWQ85	311	765109	AC010087	20264	1-404
HBMWX74	313	573336	AC015852	20265	1-340
HBMWZ14	314	573335	AC073320	20266	1-371
HBMWZ14	314	573335	AC073320	20267	1-392
HBMWZ16	315	712832	AC022243	20268	1-878 1129-1408 2239-3441 4063-4304 5226-5466 6112-6365 6627-6745 7066-7668 7805-7958 8030-9326 13458-13561 13696-13982
HBMWZ16	315	712832	AC022243	20269	1-191
HBMWZ94	316	573348	AC011930	20270	1-334
HBMWZ94	316	573348	AC021701	20271	1-334
HBMWZ94	316	573348	AC011930	20272	1-363
HBMWZ94	316	573348	AC011930	20273	1-169
HBMWZ94	316	573348	AC021701	20274	1-363
HBMWZ94	316	573348	AC021701	20275	1-169
HBMXE31	317	573323	AC010502	20276	1-107
HBMXE31	317	573323	AC023779	20277	1-107
HBMXE31	317	573323	AC010502	20278	1-225
HBMXE31	317	573323	AC023779	20279	1-225
HBMXG08	319	959766	AL365218	20280	1-302 986-1942 2159-2940
HBMXG08	319	959766	AL160287	20281	1-957
HBMXG08	319	959766	AL160287	20282	1-762
HBMXG08	319	959766	AL160287	20283	1-289 974-1275
HBMXL10	321	968054	AL354926	20284	1-387
HBMXL10	321	968054	AL354926	20285	1-146
HBMXN39	323	705578	AC007406	20286	1-903
HBMXN39	323	705578	AC007406	20287	1-210
HBMXN39	323	705578	AC007406	20288	1-137 729-1311 2444-2560 5349-5545 7501-7585 7959-8289 10599-11042

					11170-11305 11810-12116 13270-13384 15916-16273 19949-20062 21183-21318 21716-22106 22372-22471 23138-23500 24413-24575 26373-26926 27291-27435
HBMXO08	325	959768	AL159981	20289	1-433
HBMXO08	325	959768	AL160155	20290	1-433
HBMXO08	325	959768	AL159981	20291	1-340
HBMXO08	325	959768	AL159981	20292	1-231
HBMXO08	325	959768	AL160155	20293	1-340
HBMXO08	325	959768	AL160155	20294	1-231
HBMXP90	326	574802	AC006055	20295	1-975 1001-1658 3268-3377 5231-5317 5881-6170 6180-6546 6750-10147 10463-11127
HBMXP90	326	574802	AC006055	20296	1-344
HBMXS38	328	706039	AC027320	20297	1-886
HBMXS38	328	706039	AC008475	20298	1-886
HBMXS38	328	706039	AC027320	20299	1-340
HBMXS38	328	706039	AC008475	20300	1-340
HBMXU37	329	787155	AC004472	20301	1-511 725-1358 1371-2631 2712-3213 4100-4503 4587-4770 4808-5212 5835-6000 6587-6723 7277-7601 8372-8506 9066-9684 10294-10443 10505-10671 10981-11097 11489-11657 11712-11975 12060-12370 12847-13177 13448-13606 14394-14908 15130-16605
HBMXU37	329	787155	AC004472	20302	1-1171 1583-2215 2318-2866 2918-3060

					3218-3349
					3450-3598
					3737-3890
					4135-4250
					4291-4358
					4565-4859
					4999-5043
					5226-5438
					5656-6488
HBMXW13	330	657241	AC027092	20303	1-383
HBTAE07	332	953607	AC025824	20304	1-145
HBTAE07	332	953607	AP002344	20305	1-311
HBTAE07	332	953607	AC011768	20306	1-287
HBTAE07	332	953607	AC022802	20307	1-287
HBTAE07	332	953607	AP000826	20308	1-304
HBTAE07	332	953607	AC012118	20309	1-292
HBTAE07	332	953607	AC019275	20310	1-290
HBTAE07	332	953607	AC069581	20311	1-250
HBTAE07	332	953607	AP001840	20312	1-310
HBTAE07	332	953607	AP000926	20313	1-201
HBTAE07	332	953607	AC009859	20314	1-235
HBTAE07	332	953607	AC044899	20315	1-288
HBTAE07	332	953607	AP002353	20316	1-252
HBTAE07	332	953607	AC015992	20317	1-239
HBTAE07	332	953607	AC025829	20318	1-288
HBTAE07	332	953607	AP002365	20319	1-234
HBTAE07	332	953607	AC025884	20320	1-283
HBTAE07	332	953607	AL139382	20321	1-285
HBTAE07	332	953607	AC013382	20322	1-156
HBTAE07	332	953607	AP002368	20323	1-184
HBTAE07	332	953607	AP002763	20324	1-127
HBTAE07	332	953607	AC027146	20325	1-301
HBTAE07	332	953607	AC025054	20326	1-301
HBTAE07	332	953607	AC073118	20327	1-268
HBTAE07	332	953607	AC024490	20328	1-232
HBTAE07	332	953607	AC021834	20329	1-233
HBTAE07	332	953607	AC023137	20330	1-297
HBTAE07	332	953607	AC024701	20331	1-187
HBTAE07	332	953607	AC024443	20332	1-196
HBTAE07	332	953607	AC011039	20333	1-231
HBTAE07	332	953607	AC010985	20334	1-275
HBTAE07	332	953607	AC026785	20335	1-238
HBTAE07	332	953607	AP001098	20336	1-134
HBTAE07	332	953607	AC025793	20337	1-291
HBTAE07	332	953607	AP001791	20338	1-276
HBTAE07	332	953607	AL390024	20339	1-310
HBTAE07	332	953607	AC027479	20340	1-290
HBTAE07	332	953607	AP001456	20341	1-235
HBTAE07	332	953607	AP000881	20342	1-303
HBTAE07	332	953607	AC009144	20343	1-229
HBTAE07	332	953607	AC013733	20344	1-299
HBTAE07	332	953607	AP001097	20345	1-278
HBTAE07	332	953607	AC018963	20346	1-696
HBTAE07	332	953607	AC010858	20347	1-230
HBTAE07	332	953607	AC008521	20348	1-681
HBTAE07	332	953607	AL390024	20349	1-211

					545-842
HBTAE07	332	953607	AP001456	20350	1-131
HBTAE07	332	953607	AP000881	20351	1-49
HBTAE07	332	953607	AP001097	20352	1-118
HBTAE07	332	953607	AC018963	20353	1-178
HBTAE07	332	953607	AC008521	20354	1-488
HBTAE07	332	953607	AC027146	20355	1-160
HBTAE07	332	953607	AC018963	20356	1-296
HBTAE07	332	953607	AC008521	20357	1-152
HBUAG42	333	676856	AC023671	20358	1-84
					522-1376
					1391-2022
					2336-2691
					2770-2873
					3296-3457
					3833-4014
					4629-4743
					5509-5600
					5763-5911
					5991-6156
					6565-6887
					7092-7271
					7386-8223
HBUAG42	333	676856	AC023671	20359	1-218
HBUAG42	333	676856	AC023671	20360	1-132
HBYYA17	334	924209	AL163545	20361	1-234
HBYYA17	334	924209	AL162497	20362	1-235
HBYYA17	334	924209	AL163541	20363	1-234
HBYYAB40	335	463488	AC073612	20364	1-434
HBYYAB40	335	463488	AC078860	20365	1-312
HBYYAB40	335	463488	AC011601	20366	1-137
					753-876
					1276-1426
					2139-2316
					2563-2861
					3065-3612
					3690-3800
					4624-4758
					4858-4980
					5337-5705
					5867-5982
					6557-6675
					7659-7842
					9146-9333
					10836-11491
					11814-12235
					12409-12584
					12635-13130
					13274-13608
					13789-14222
					15257-15381
					15466-15667
					16183-16277
					20273-20385
					20653-20757
					20891-21842
					22155-22259

					22885-24020 24023-26112
HBYAB40	335	463488	AC073612	20367	1-335
HBYAB40	335	463488	AC078860	20368	1-337
HBYAB40	335	463488	AC011601	20369	1-440 3319-3739 4558-4663 4790-5180 6022-6108
HCFAA38	336	576731	AC067923	20370	1-635
HCFAA38	336	576731	AC067923	20371	1-390
HCFAC84	337	869259	AL031733	20372	1-680
HCFAC84	337	869259	AL356532	20373	1-680
HCFAC84	337	869259	AL031733	20374	1-1006 1112-2080
HCFAC84	337	869259	AL356532	20375	1-492
HCFAF63	338	689719	AC068528	20376	1-1067
HCFAF63	338	689719	AC068528	20377	1-108
HCFAF63	338	689719	AC068528	20378	1-175
HCFAT85	339	728254	AC025289	20379	1-505
HCFAT85	339	728254	AC026472	20380	1-505
HCFAT85	339	728254	AC025289	20381	1-310
HCFAT85	339	728254	AC026472	20382	1-310
HCFAT85	339	728254	AC025289	20383	1-539
HCFAT85	339	728254	AC026472	20384	1-539
HCFAV46	342	924086	AC025699	20385	1-845 1240-1932 2607-2812 2919-3677 4881-4998
HCFAV46	342	924086	AL390728	20386	1-845
HCFAV46	342	924086	AC025699	20387	1-1534
HCFAV46	342	924086	AL390728	20388	1-118
HCFAV46	342	924086	AL390728	20389	1-693
HCFAY27	344	784950	AL358433	20390	1-398
HCFAY27	344	784950	AL358433	20391	1-492
HCFAY27	344	784950	AL358433	20392	1-93
HCFBF07	349	953506	AL138499	20393	1-74 1171-1414 2003-2145 5281-5390 6571-6708 7273-8042 8498-8581 9242-9411 9823-9893 11229-11269 11959-12050 12418-12490 12981-13017 13172-13255 13739-13807 16333-16490 16856-16966 17025-17457 19018-19053

					19571-19708 19739-20018 20071-20166 20847-20919 21057-21542 21820-21861 22375-22563 22606-22687 23332-23536 23934-23974 24441-25133 25607-26151 27567-27728 28089-28180 30591-30662 31711-31750 32025-32303 32728-33189 33569-33660 34582-35243 36002-36089 37700-38027 38479-39379 39447-39994 39996-40412 40939-41175 42777-42859 43613-43709 43834-43926 44676-44750 44978-45061 45219-45304 45604-46116 46592-46981 47116-47969 49128-49249 49765-50272 50400-50495 50679-50942 51613-51736 52713-52789 54124-54402 54837-55118 55215-55764 56143-56632
HCFBF07	349	953506	AL138499	20394	1-386 635-1149
HCFBL08	353	959617	AL354946	20395	1-41 762-958 1036-1229 1841-2689 6376-6527 7265-7555 7729-8062 8067-8243 9073-9461 9550-9946

					11409-11923 12059-12160 12473-12650 12813-14160
HCFBL08	353	959617	AL157947	20396	1-291
HCFBL08	353	959617	AL354946	20397	1-374
HCFBL08	353	959617	AL157947	20398	1-41 762-958 1036-1229 1839-2687 6380-6512
HCFBL08	353	959617	AL157947	20399	1-334
HCFBN62	354	576126	AC007689	20400	1-153 1140-2145 2759-3077 4148-4256 5962-6039 7173-7313 7686-7891 8268-9084 9265-9473 11417-11520 12256-15181
HCFBN62	354	576126	AL096766	20401	1-153 1141-2145 2759-3077 4148-4256 5962-6039 7216-7316 7689-7894 8626-9085 9266-9474 12257-15185
HCFBN62	354	576126	AC007689	20402	1-140
HCFBN62	354	576126	AC007689	20403	1-115
HCFBN62	354	576126	AL096766	20404	1-200
HCFBN62	354	576126	AL096766	20405	1-110
HCFBO76	356	577218	AF031077	20406	1-401
HCFBO76	356	577218	AF031076	20407	1-58 736-1136 1527-1673 1676-1852 2020-2150 3002-3132 3803-4247 4843-5248
HCFBO76	356	577218	AF031078	20408	1-58 737-1137 1532-1674 1689-1845 2021-2151 3003-3133 3804-4248 4844-5249
HCFBO76	356	577218	AF030876	20409	1-58 737-1137 1532-1674



					1689-1845 2021-2151 3003-3133 3804-4248 4844-5249
HCFBO76	356	577218	AF031077	20410	1-358
HCFBO76	356	577218	AF031077	20411	1-407
HCFBO76	356	577218	AF031076	20412	1-358
HCFBO76	356	577218	AF031078	20413	1-358
HCFBO76	356	577218	AF030876	20414	1-358
HCFBR92	357	576864	AL136525	20415	1-639
HCFBR92	357	576864	AL136525	20416	1-195
HCFBS25	358	828076	AP001332	20417	1-312
HCFBS25	358	828076	AC026293	20418	1-312
HCFBS25	358	828076	AP001332	20419	1-371
HCFBS25	358	828076	AC026293	20420	1-224
HCFBS25	358	828076	AC026293	20421	1-371
HCFBS73	359	506244	AC011175	20422	1-318
HCFBS73	359	506244	AC022695	20423	1-326
HCFBS73	359	506244	AL357516	20424	1-185 1004-1288 1756-1882 2825-3099 4274-4353 5383-5845 6009-6743
HCFBU01	360	916703	AC011340	20425	1-600
HCFBU01	360	916703	AC011422	20426	1-600
HCFBU01	360	916703	AC008408	20427	1-600
HCFBU85	363	576010	AP000165	20428	1-636
HCFBU85	363	576010	AP000315	20429	1-636
HCFBU85	363	576010	AP000118	20430	1-636
HCFBU85	363	576010	AP000165	20431	1-256
HCFBU85	363	576010	AP000315	20432	1-256
HCFBU85	363	576010	AP000118	20433	1-256
HCFBW13	364	828042	AC004013	20434	1-95 1069-1138 1254-1374 1929-2124 2143-2527 2662-2853 4867-5466 5817-5963 6091-6852 7346-8017 8495-9046 9480-9754 10707-10804 11457-11607 13123-13793 14020-14240 14543-14648 16121-16741 16960-17492 17788-17888 18364-18463

					19025-19263 19827-19849 20004-20144 20616-21220 22114-22197 23403-23932 24083-24458 24548-24999
HCFBW13	364	828042	AC004013	20435	1-25 1229-2304 2469-2775 4672-4809 5317-5363
HCFA31	366	725700	Z97197	20436	1-163 2217-2527 2583-2996 3076-3221 4347-4476 4702-4806 6076-6977 8267-8366 9341-9456 10055-10411 10466-10579 11104-11642 12202-12889 12990-13377 13871-14364 14909-14980 15076-15237 15268-16876
HCFA31	366	725700	AL022340	20437	1-163 2217-2527 2583-2996 3076-3221 4347-4476 4702-4806 6076-6977 8267-8366 9341-9456 10055-10411 10466-10579 11104-11642 12202-12889 12990-13377 13871-14364 14909-14980 15076-15237 15268-16876
HCFA31	366	725700	AC063943	20438	1-782 2048-2541 3564-3732 5786-6096 6152-6565 6645-6790 7916-8045 8271-8375

					9647-10547 11837-11936 12897-13011 13611-13967 14022-14135 14660-15198 15758-16445 16546-16933 17427-17920 18466-18537 18633-18794 18825-20433
HCFCA31	366	725700	Z97197	20439	1-1365 1767-2328 2414-2457
HCFCA31	366	725700	AL022340	20440	1-539 576-1364 1766-2327 2413-2456
HCFCA31	366	725700	AC063943	20441	1-1365 1767-2328 2414-2457
HCFCA31	366	725700	AC063943	20442	1-209
HCFCB67	367	751764	AC008635	20443	1-351 3176-3286 3606-3939 4045-4149 4293-4820 5107-5671 7431-8168 9463-9741 9822-10045 10429-10707 11092-11373 11769-12157 13102-13177 13260-13415 14428-14713 15542-15982 16084-16188 16362-16481 16883-17055 19547-20060 20079-20340 20362-20661 21851-22282 22406-22480 23050-23325 23507-23629 23784-24288 24516-24680 24863-25104 25499-25615 27255-27542 30356-30821 32463-32561 32733-33093

					33356-33852 34051-34325 34342-34422 34466-34606 35548-35818 36758-37074 39091-39182 39476-39898 40159-40748 41081-41159
HCFCB67	367	751764	AC008635	20444	1-239
HCFC57	368	577375	AC046170	20445	1-548
HCFC94	370	670538	AC005776	20446	1-417
HCFC94	370	670538	AC005776	20447	1-105
HCFC94	370	670538	AC005776	20448	1-262
HCFC44	371	883973	AC073863	20449	1-480
HCFC44	371	883973	AC009731	20450	1-480
HCFC44	371	883973	AC073863	20451	1-221
HCFC44	371	883973	AC009731	20452	1-267
HCFC44	371	883973	AC009731	20453	1-221
HCFC47	372	894415	AC036159	20454	1-545
HCFC47	373	720400	AC003072	20455	1-395 1224-1311 2736-2904 3775-5829 6051-6406 6418-7537
HCFC47	373	720400	AC003072	20456	1-314
HCFC47	373	720400	AC003072	20457	1-384
HCFCJ21	374	671028	AC027389	20458	1-106
HCFCM12	375	970835	AC019182	20459	1-885 914-1499 2735-2756
HCFCM12	375	970835	AC019182	20460	1-106 133-493 1381-1525 2017-2452 3310-4064
HCFCN66	376	850422	AC009554	20461	1-469
HCFCN66	376	850422	AC009554	20462	1-375
HCFCN81	377	576871	AL356780	20463	1-119 788-1621 2685-2774
HCFCN81	377	576871	AL356780	20464	1-132
HCFCN81	377	576871	AL356780	20465	1-646
HCFCP14	378	577277	AL109916	20466	1-374
HCFCP14	378	577277	AL158035	20467	1-374
HCFCP14	378	577277	AL109916	20468	1-367
HCFCP14	378	577277	AL158035	20469	1-367
HCFCP14	378	577277	AL109916	20470	1-386
HCFCP14	378	577277	AL158035	20471	1-386
HCFCR76	380	862682	AL033547	20472	1-567
HCFCR76	380	862682	AL033547	20473	1-254
HCFCR76	380	862682	AL033547	20474	1-520
HCFCX73	381	575988	AC012609	20475	1-311
HCFCX73	381	575988	AC026406	20476	1-298

HCFDB13	382	576709	AP002449	20477	1-508
HCFDB13	382	576709	AC067860	20478	1-506
HCFDB13	382	576709	AC069433	20479	1-506
HCFDB13	382	576709	AP002449	20480	1-237
HCFDB13	382	576709	AP002449	20481	1-105
HCFDB13	382	576709	AC067860	20482	1-237
HCFDB13	382	576709	AC069433	20483	1-237
HCFDB13	382	576709	AC067860	20484	1-105
HCFDB13	382	576709	AC069433	20485	1-105
HCFDE10	384	961270	AC034222	20486	1-875
HCFDE10	384	961270	AC034222	20487	1-801
HCFDE19	385	671507	AC009015	20488	1-1562
HCFDE19	385	671507	AC003959	20489	1-466 1183-2284 2689-3833 4113-4288 4369-4952 6183-7749
HCFDE19	385	671507	AC009015	20490	1-526
HCFDE19	385	671507	AC003959	20491	1-664
HCFDE79	386	575996	AC013479	20492	1-541
HCFLD78	389	773685	AC026161	20493	1-2605
HCFLD78	389	773685	AC022070	20494	1-2605
HCFLD78	389	773685	AC008151	20495	1-2605
HCFLD78	389	773685	AC026161	20496	1-1513
HCFLD78	389	773685	AC022070	20497	1-1513
HCFLD78	389	773685	AC008151	20498	1-1513
HCFLE44	390	576679	AC023058	20499	1-158 652-938 1101-2698 3877-4323 4510-4935 5945-6302
HCFLE44	390	576679	AC023159	20500	1-974 1300-1533 1969-2092 3094-3380 3543-4233
HCFLE44	390	576679	AC024056	20501	1-1586
HCFLE44	390	576679	AC018506	20502	1-218 712-998 1161-2759 3937-4383 4570-4995 6005-6478 8782-9084 9651-13138
HCFLE44	390	576679	AC023159	20503	1-1120
HCFLE44	390	576679	AC023058	20504	1-124
HCFLE44	390	576679	AC024056	20505	1-3488
HCFLE44	390	576679	AC024056	20506	1-287
HCFLE44	390	576679	AC018506	20507	1-313
HCFLE44	390	576679	AC018506	20508	1-124
HCFLE95	391	945122	AL121949	20509	1-248
HCFLE95	391	945122	AL121949	20510	1-433
HCFLF96	392	579039	AL049780	20511	1-33

					2486-3028 3593-3681 3828-3889 6854-6907 7350-7545 9474-9717 9723-10077 10527-11087 11166-11594 13231-13400 14027-14327 15465-15573 16076-16238 19959-20368 21799-21859 23602-24438 24694-24797 25509-25961 26557-27070 28587-28750 28843-29088 29996-30215 30398-30446 32541-35115
HCFLF96	392	579039	AC007055	20512	1-33 2488-3030 3594-3682 3829-3890 6855-6908 7351-7546 9459-9702 9708-10062 10512-11071 11150-11578 13215-13384 14006-14311 15449-15557 16060-16222 19946-20355 21782-21842 23585-24421 25493-25945 26541-27054 28572-28735 28828-29073 29981-30200 32526-35100
HCFLF96	392	579039	AL049780	20513	1-133
HCFLF96	392	579039	AL049780	20514	1-295
HCFLF96	392	579039	AC007055	20515	1-266
HCFLF96	392	579039	AC007055	20516	1-133
HCFLG84	393	711243	AC016776	20517	1-316
HCFLG84	393	711243	AC016757	20518	1-316
HCFLG84	393	711243	AC016776	20519	1-126
HCFLG84	393	711243	AC016776	20520	1-272 481-645 1222-1860

HCFLG84	393	711243	AC016757	20521	1-105
HCFLG84	393	711243	AC016757	20522	1-271 480-644 1217-1853
HCFLI49	394	722269	AC008746	20523	1-525
HCFLI49	394	722269	AC008746	20524	1-514
HCFLI49	394	722269	AC008746	20525	1-326
HCFLJ40	395	576068	AC027296	20526	1-694
HCFLJ40	395	576068	AC012020	20527	1-694
HCFLJ40	395	576068	AC012340	20528	1-694
HCFLJ40	395	576068	AC011318	20529	1-694
HCFLJ40	395	576068	AC027296	20530	1-114
HCFLJ40	395	576068	AC012020	20531	1-114
HCFLJ40	395	576068	AC027296	20532	1-95 1633-2044
HCFLJ40	395	576068	AC012020	20533	1-95 1634-2045
HCFLJ40	395	576068	AC012340	20534	1-95 1633-2044
HCFLJ40	395	576068	AC011318	20535	1-114
HCFLJ40	395	576068	AC012340	20536	1-605
HCFLJ40	395	576068	AC011318	20537	1-95 1634-2045
HCFLR55	397	576043	AC016995	20538	1-54 300-406 746-1337 3607-3655 4275-4329 5694-5787 7962-8300 8491-8630 9433-9527 9990-10554 15587-16122 16603-16970 17481-17934 18056-18492 18632-18668 19513-19746 20110-20847 20907-24290 24318-24993
HCFLR55	397	576043	AC016995	20539	1-579
HCFLU12	400	970849	AC073950	20540	1-502
HCFLU12	400	970849	AL096816	20541	1-505
HCFLU12	400	970849	AL096816	20542	1-493
HCFLW58	401	964870	AC015804	20543	1-561 1099-1510
HCFLW58	401	964870	AC015804	20544	1-268
HCFLW58	401	964870	AC015804	20545	1-806 2314-2866
HCFMC42	402	670519	AC013416	20546	1-599
HCFMC42	402	670519	AC004847	20547	1-592
HCFMC42	402	670519	AC013416	20548	1-133 216-355 360-480

					623-730 909-1963
HCFMC42	402	670519	AC013416	20549	1-921
HCFMC42	402	670519	AC004847	20550	1-133 325-423 909-1963
HCFMD15	403	975075	AL365325	20551	1-649
HCFMD15	403	975075	AL365325	20552	1-236
HCFMD15	403	975075	AL365325	20553	1-108
HCFMD23	404	676003	AC069425	20554	1-429
HCFMD23	404	676003	AC069204	20555	1-429
HCFMD23	404	676003	AC016937	20556	1-429
HCFMD23	404	676003	AC069425	20557	1-469
HCFMD23	404	676003	AC069204	20558	1-539
HCFMD23	404	676003	AC069425	20559	1-539
HCFMD23	404	676003	AC069204	20560	1-469
HCFMD23	404	676003	AC016937	20561	1-539
HCFMD23	404	676003	AC016937	20562	1-469
HCFME27	405	576815	AL031283	20563	1-434
HCFME27	405	576815	AL031283	20564	1-691
HCFME27	405	576815	AL031283	20565	1-665
HCFMF47	406	973243	AL139404	20566	1-623
HCFMF47	406	973243	AL139404	20567	1-101
HCFMF47	406	973243	AL139404	20568	1-127
HCFMG14	408	576063	AC024049	20569	1-352
HCFMG14	408	576063	AF276758	20570	1-352
HCFMH12	409	970843	AC011196	20571	1-259 4697-4727
HCFMH12	409	970843	AC025937	20572	1-238
HCFMH12	409	970843	AC068034	20573	1-581
HCFMH12	409	970843	AC046131	20574	1-238
HCFMH12	409	970843	AC016630	20575	1-246
HCFMH12	409	970843	AC007459	20576	1-242
HCFMH12	409	970843	AC024702	20577	1-525 982-1092 2688-2754 4137-4761 4842-5048 5253-5597 8429-8955 9634-10247 10380-10833 12609-12781
HCFMH12	409	970843	AC016630	20578	1-131
HCFMH12	409	970843	AC024702	20579	1-139
HCFMH12	409	970843	AC024702	20580	1-612
HCFMJ70	410	576096	AL135744	20581	1-595
HCFMJ70	410	576096	AL135744	20582	1-448
HCFMJ70	410	576096	AL135744	20583	1-411
HCFMK25	411	576081	AC021989	20584	1-259
HCFMK25	411	576081	AC021989	20585	1-493
HCFMK25	411	576081	AC021989	20586	1-209 784-1247 2313-2635
HCFMK49	413	576098	AC025605	20587	1-380
HCFMK49	413	576098	AC025605	20588	1-296



HCFMK63	415	506251	AC009827	20589	1-344
HCFMK63	415	506251	AP001010	20590	1-344
HCFMK63	415	506251	AP001010	20591	1-562
HCFML42	416	576667	AL357092	20592	1-457
HCFML42	416	576667	AL357092	20593	1-654
HCFML42	416	576667	AL357092	20594	1-602
HCFMM81	417	506250	AC010364	20595	1-465
HCFMO64	419	805822	AL356478	20596	1-1241
HCFMO64	419	805822	AC023038	20597	1-3330 3654-4538
HCFMO64	419	805822	AL356780	20598	1-3330 3654-4538
HCFMO64	419	805822	AL356392	20599	1-3330 3654-4538
HCFMO64	419	805822	AC023038	20600	1-101
HCFMO64	419	805822	AL356780	20601	1-101
HCFMO64	419	805822	AL356478	20602	1-101
HCFMO64	419	805822	AC023038	20603	1-388
HCFMO64	419	805822	AL356392	20604	1-387
HCFMO64	419	805822	AL356392	20605	1-101
HCFMT62	420	954213	AC069366	20606	1-910
HCFMT62	420	954213	AC015829	20607	1-546
HCFMT62	420	954213	AC015688	20608	1-910
HCFMY85	421	933017	AC006479	20609	1-1081
HCFMY85	421	933017	AC006479	20610	1-1052
HCFMY85	421	933017	AC006479	20611	1-117
HCFMZ17	422	664132	AL353685	20612	1-130 1284-1382 1798-1846 2042-2624 3551-3663
HCFNB62	424	576446	AL355388	20613	1-442 607-803 832-1373 2145-2267
HCFNB62	424	576446	AL355388	20614	1-522
HCFNB62	424	576446	AL355388	20615	1-404
HCFNO55	426	576008	AC009148	20616	1-731
HCFNO55	426	576008	AC021880	20617	1-722
HCFNO55	426	576008	AC021116	20618	1-731
HCFNO55	426	576008	AC009148	20619	1-164
HCFNO55	426	576008	AC021880	20620	1-164
HCFNO55	426	576008	AC021116	20621	1-164
HCFOE38	429	576005	AC015867	20622	1-657
HCFOE38	429	576005	AC015867	20623	1-299
HCFOE38	429	576005	AC015867	20624	1-90
HCFOF90	430	561625	AC027603	20625	1-684
HCFOG82	431	576007	AC018628	20626	1-973
HCFOG82	431	576007	AC060798	20627	1-973
HCFOG82	431	576007	AC018628	20628	1-635
HCFOG82	431	576007	AC060798	20629	1-635
HCFOG82	431	576007	AC018628	20630	1-141
HCFOH56	432	577114	AC073334	20631	1-924
HCFOH56	432	577114	AC073334	20632	1-148 160-220
HCFOH56	432	577114	AC073334	20633	1-192

HCFOI11	433	967195	AP000631	20634	1-436 446-6013 6490-6713
HCFOI11	433	967195	AP001444	20635	1-1625
HCFOI11	433	967195	AP001444	20636	1-174
HCFOL96	434	796104	AC023089	20637	1-747
HCFOL96	434	796104	AC022942	20638	1-747
HCFOL96	434	796104	AL359252	20639	1-747
HCFOL96	434	796104	AC022942	20640	1-251
HCFOL96	434	796104	AL359252	20641	1-251
HCFOO18	435	575965	AP002408	20642	1-383
HCFOO18	435	575965	AP001498	20643	1-383
HCFOO18	435	575965	AC074288	20644	1-383
HCFOO18	435	575965	AC021325	20645	1-383
HCFOO18	435	575965	AC021714	20646	1-383
HCFOO18	435	575965	AC074288	20647	1-101
HCFOO18	435	575965	AC021325	20648	1-101
HCFOO18	435	575965	AC074288	20649	1-476
HCFOO18	435	575965	AC021325	20650	1-476
HCFOO18	435	575965	AC021714	20651	1-101
HCFOO18	435	575965	AC021714	20652	1-476
HCFOP46	437	927654	AC004387	20653	1-424
HCFOP46	437	927654	AC004387	20654	1-143
HCUAE70	440	959686	AC073481	20655	1-210
HCUAG92	442	504395	AC026227	20656	1-336
HCUAG92	442	504395	AC026227	20657	1-543
HCUAH15	443	916651	AC021030	20658	1-357
HCUAH15	443	916651	AC021030	20659	1-251
HCUAH60	444	916621	AC013709	20660	1-1418 1423-1942
HCUAH70	445	574164	AC009053	20661	1-742
HCUAH70	445	574164	AC009053	20662	1-409
HCUAH70	445	574164	AC009053	20663	1-240
HCUAI71	446	959492	AC027253	20664	1-481
HCUAI71	446	959492	AL162791	20665	1-93 1908-2112 2560-2885 3834-4635 7122-7452 7597-7872 8109-8589 8970-9155 9680-9770 10880-11011 11395-11522 11845-11916 12699-12920 13055-13406 14575-14865 16377-16874 17120-21461
HCUAI71	446	959492	AC018644	20666	1-93 1908-2112 2560-2885 3834-4635 7119-7455

					7597-7872 8109-8589 8970-9155 9680-9770 10880-11011 11395-11475
HCUAI71	446	959492	AC027253	20667	1-186
HCUAI71	446	959492	AL162791	20668	1-137
HCUAI71	446	959492	AL162791	20669	1-262
HCUAI71	446	959492	AC018644	20670	1-262
HCUAI71	446	959492	AC018644	20671	1-72 855-1076
HCUAK23	447	676289	AL133485	20672	1-558
HCUAK23	447	676289	AL133485	20673	1-430
HCUAK49	448	574256	AC027207	20674	1-510
HCUAK49	448	574256	AC022862	20675	1-510
HCUAK49	448	574256	AC023006	20676	1-58 1060-1157 1719-1838 3822-4331
HCUAK49	448	574256	AC027207	20677	1-325
HCUAK49	448	574256	AC022862	20678	1-338
HCUAK49	448	574256	AC023006	20679	1-338
HCUAL07	449	953876	AC069024	20680	1-661
HCUAL07	449	953876	AC069024	20681	1-105
HCUAM57	450	574375	AC011939	20682	1-335
HCUAM57	450	574375	AC011939	20683	1-603
HCUAM57	450	574375	AC011939	20684	1-433
HCUAN44	452	574154	AC010968	20685	1-495
HCUAN44	452	574154	AL133245	20686	1-495
HCUAN44	452	574154	AC010968	20687	1-639 646-786
HCUAN44	452	574154	AC010968	20688	1-87
HCUAN44	452	574154	AL133245	20689	1-461 468-608
HCUAN44	452	574154	AL133245	20690	1-87
HCUAN72	454	850140	AL049709	20691	1-468
HCUAN72	454	850140	AL049709	20692	1-194
HCUAN72	454	850140	AL049709	20693	1-706
HCUAO03	455	924902	AC016725	20694	1-463
HCUAO03	455	924902	AC016725	20695	1-495
HCUAO03	455	924902	AC016725	20696	1-86
HCUAQ92	457	506688	AC011247	20697	1-372
HCUAQ92	457	506688	AC011247	20698	1-264
HCUAQ92	457	506688	AC011247	20699	1-480
HCUAR07	458	953872	AC008541	20700	1-650
HCUAR07	458	953872	AC008541	20701	1-462 1629-2390
HCUAT07	459	953869	AL021396	20702	1-311 710-905 2481-3131 4113-4756 20716-21291 21336-22335 29441-29526 31157-31465

					32435-32460 34207-34543 35891-35954 37127-38771
HCUAT07	459	953869	AL021396	20703	1-3577
HCUAT07	459	953869	AL021396	20704	1-84 371-556
HCUAU16	461	574193	AL139106	20705	1-300
HCUAU16	461	574193	AL139106	20706	1-197
HCUAU16	461	574193	AL139106	20707	1-595
HCUAX57	462	934633	AC068345	20708	1-542 923-1396
HCUAX57	462	934633	AC051654	20709	1-541 922-1396
HCUAX57	462	934633	AC025936	20710	1-542 923-1397
HCUAX57	462	934633	AC068345	20711	1-425
HCUAX57	462	934633	AC068345	20712	1-563
HCUAX57	462	934633	AC051654	20713	1-425
HCUAX57	462	934633	AC025936	20714	1-563
HCUAX57	462	934633	AC051654	20715	1-563
HCUAX57	462	934633	AC025936	20716	1-425
HCUBB28	463	685493	AC006358	20717	1-330
HCUBB28	463	685493	AC006358	20718	1-270
HCUBB46	464	577238	AC012487	20719	1-374
HCUBB46	464	577238	AC012487	20720	1-228
HCUBB46	464	577238	AC012487	20721	1-642 839-1028
HCUBE26	465	810522	AL159992	20722	1-114
HCUBE27	466	574097	AL162590	20723	1-412
HCUBE27	466	574097	AL161445	20724	1-412
HCUBE27	466	574097	AL162590	20725	1-405 1672-1859 2277-2588
HCUBE27	466	574097	AL162590	20726	1-697
HCUBE27	466	574097	AL161445	20727	1-697
HCUBE27	466	574097	AL161445	20728	1-405 1672-1859 2277-2588
HCUBE55	467	574203	AC009996	20729	1-436 1590-1977 2511-3248 3257-4230 4664-5618 5831-5938 7048-8230 9031-9121 9145-9931 10637-11800 11867-12970
HCUBG83	469	537501	AC012676	20730	1-237 1235-1650 3290-3390 3518-3873 4268-4340 5781-6043

					7436-7755 8442-8519 9011-9195
HCUBI13	471	862161	AC020920	20731	1-183
HCUBI13	471	862161	AC025184	20732	1-186
HCUBI13	471	862161	AC073474	20733	1-460 961-1715
HCUBI13	471	862161	AC073320	20734	1-459 960-1714
HCUBI13	471	862161	AC073474	20735	1-593
HCUBI13	471	862161	AC073474	20736	1-627
HCUBI13	471	862161	AC073320	20737	1-593
HCUBI13	471	862161	AC073320	20738	1-627
HCUBI14	472	574199	AL121913	20739	1-293
HCUBI14	472	574199	AL121913	20740	1-688
HCUBI14	472	574199	AL121913	20741	1-1443
HCUBI15	473	881192	AC012659	20742	1-352
HCUBI15	473	881192	AJ132410	20743	1-352
HCUBI15	473	881192	AC012659	20744	1-186
HCUBI15	473	881192	AJ132410	20745	1-490
HCUBI15	473	881192	AJ132410	20746	1-115 134-313
HCUBI38	474	792415	AL161781	20747	1-543
HCUBI49	476	961748	AL357633	20748	1-149
HCUBI49	476	961748	AL357633	20749	1-238
HCUBI74	477	574235	AC013451	20750	1-427
HCUBI74	477	574235	AC013451	20751	1-254
HCUBJ11	478	967484	AC023295	20752	1-369
HCUBK01	480	917257	AC009452	20753	1-413
HCUBK36	481	850132	AC009759	20754	1-507
HCUBK36	481	850132	AC012018	20755	1-507
HCUBK36	481	850132	AC009759	20756	1-416
HCUBK36	481	850132	AC009759	20757	1-316
HCUBK36	481	850132	AC012018	20758	1-316
HCUBK36	481	850132	AC012018	20759	1-416
HCUBK46	483	574120	AC027446	20760	1-360
HCUBK46	483	574120	AC037438	20761	1-360
HCUBK46	483	574120	AC027446	20762	1-158
HCUBK46	483	574120	AC027446	20763	1-302 427-828
HCUBK46	483	574120	AC037438	20764	1-302 427-828
HCUBK46	483	574120	AC037438	20765	1-158
HCUBL12	485	739021	AL358790	20766	1-204
HCUBL12	485	739021	AL353727	20767	1-204
HCUBL12	485	739021	AC009144	20768	1-204
HCUBL12	485	739021	AL358790	20769	1-254
HCUBL12	485	739021	AL358790	20770	1-750 1266-4745
HCUBL12	485	739021	AL353727	20771	1-750 1266-4744
HCUBL12	485	739021	AC009144	20772	1-947
HCUBL65	486	574201	AC026664	20773	1-308
HCUBL65	486	574201	AC026339	20774	1-307
HCUBL65	486	574201	AC055717	20775	1-309
HCUBL65	486	574201	AC021743	20776	1-307

HCUBN07	488	953879	AC027603	20777	1-190
HCUBN07	488	953879	AC027603	20778	1-442
HCUBN07	488	953879	AC027603	20779	1-177
HCUBN38	490	971421	AC004227	20780	1-392 531-752 819-1798 2275-2678
HCUBN38	490	971421	AC004227	20781	1-309
HCUBN38	490	971421	AC004227	20782	1-1186
HCUBN66	491	664536	AC008569	20783	1-660 998-1319 1504-1784 2326-2727 2831-2999 3074-3235 3251-3339 3846-4002 4041-4483 4980-5025 5848-5973 5998-6122 6626-7510 7513-8231 9265-9396 9997-10146 10578-10734 10810-11205 12204-12521 12927-13242 13794-14486 14573-14684 15516-15786 16358-16733 16787-17242 17307-17486 18669-18874 19251-19480 19623-19965 19982-20150 20327-20598 20819-21648 21742-21952 21960-22131 22220-23824 23906-24530 25471-25737 25904-26390
HCUBN66	491	664536	AC008569	20784	1-461 1463-1563 2194-2363
HCUBO08	492	959928	AC006388	20785	1-443
HCUBO08	492	959928	AC006388	20786	1-149
HCUBO08	492	959928	AC006388	20787	1-409
HCUBP69	493	526757	AL031683	20788	1-135
HCUBP69	493	526757	AL031683	20789	1-122
HCUBP89	494	850016	AC046176	20790	1-359
HCUBP89	494	850016	AC046176	20791	1-142

HCUBQ76	495	575352	AC016114	20792	1-243
HCUBQ76	495	575352	AL356021	20793	1-243
HCUBQ85	496	967074	AL356457	20794	1-329
HCUBQ85	496	967074	AL356457	20795	1-689
HCUBS58	497	522378	AP001963	20796	1-63 228-870 1835-2235 2276-3113
HCUBS58	497	522378	AP001816	20797	1-63 228-870 1835-2235 2276-3113
HCUBS58	497	522378	AC013785	20798	1-63 228-870 1835-2235 2276-3113
HCUBS58	497	522378	AP001963	20799	1-409
HCUBS58	497	522378	AP001816	20800	1-409
HCUBS58	497	522378	AC013785	20801	1-409
HCUBT02	499	920682	AC078843	20802	1-318
HCUBT02	499	920682	AC009530	20803	1-318
HCUBT02	499	920682	AC078843	20804	1-325
HCUBT02	499	920682	AC009530	20805	1-325
HCUBT94	500	574239	AC012630	20806	1-556
HCUBT94	500	574239	AC008533	20807	1-556
HCUBT94	500	574239	AC011371	20808	1-561
HCUBT94	500	574239	AC012630	20809	1-318
HCUBT94	500	574239	AC008533	20810	1-318
HCUBT94	500	574239	AC011371	20811	1-318
HCUBV04	501	615547	AL035090	20812	1-416
HCUBX57	502	506518	AC020600	20813	1-606
HCUBX57	502	506518	AP001630	20814	1-605
HCUBX57	502	506518	AC020600	20815	1-302
HCUBX57	502	506518	AC020600	20816	1-460
HCUBX57	502	506518	AP001630	20817	1-245
HCUBX57	502	506518	AP001630	20818	1-460
HCUBZ57	503	529702	AC068084	20819	1-341
HCUBZ57	503	529702	AC068084	20820	1-134
HCUBZ86	504	694720	AC006451	20821	1-292
HCUBZ88	505	574096	AL136525	20822	1-586
HCUBZ96	506	506585	AC010160	20823	1-307
HCUBZ96	506	506585	AC010160	20824	1-462
HCUCC20	508	573901	AL355132	20825	1-382
HCUCC20	508	573901	AL355132	20826	1-238
HCUCC20	508	573901	AL355132	20827	1-151
HCUCC78	509	577129	AL022318	20828	1-92 279-578 642-939
HCUCC96	510	796530	AC060796	20829	1-490
HCUCD82	512	780047	AC026068	20830	1-657
HCUCD82	512	780047	AC026068	20831	1-507 1224-1359
HCUCG21	513	671210	AC009720	20832	1-532
HCUCI43	514	715488	AL136380	20833	1-210
HCUCI43	514	715488	AL136380	20834	1-160
HCUCJ90	515	967501	AC007032	20835	1-163

					511-831 1581-1856 1918-2584 2587-2776 3944-4761 4855-7799 7849-8034 8580-8847 9303-10448 11604-12183 12772-13476 13563-13793 14201-14557 14872-17303 17312-17604 17739-18258 18373-19256 20321-20694 20846-22055 22122-22853 22866-23293 23557-24012 24021-24459 25225-28897
HCUCJ90	515	967501	AC007032	20836	1-445
HCUCJ90	515	967501	AC007032	20837	1-449
HCUCT08	516	959910	AC012479	20838	1-498
HCUCT48	517	720905	AP002520	20839	1-618
HCUCT48	517	720905	AP001447	20840	1-605
HCUCT48	517	720905	AC023532	20841	1-606
HCUCT48	517	720905	AC023532	20842	1-153
HCUCV13	518	574121	AC012515	20843	1-196 210-317
HCUCV13	518	574121	AC012264	20844	1-195 209-316
HCUCV13	518	574121	AC012264	20845	1-586
HCUCV20	519	694398	AC015935	20846	1-257
HCUCV20	519	694398	AC015935	20847	1-435
HCUCV20	519	694398	AC015935	20848	1-435
HCUDA38	520	862089	AC009632	20849	1-347
HCUDA38	520	862089	AC009631	20850	1-347
HCUDA38	520	862089	AC026216	20851	1-347
HCUDA38	520	862089	AC009632	20852	1-615
HCUDA38	520	862089	AC009631	20853	1-615
HCUDA38	520	862089	AC026216	20854	1-277 410-769
HCUDA38	520	862089	AC009632	20855	1-277 410-769
HCUDA38	520	862089	AC009631	20856	1-277 410-769
HCUDB13	521	578712	AL162740	20857	1-676
HCUDB13	521	578712	AL162740	20858	1-127
HCUDC45	522	576566	AC007324	20859	1-446
HCUDC45	522	576566	AC008079	20860	1-446
HCUDC45	522	576566	AC016830	20861	1-388
HCUDC45	522	576566	AC008101	20862	1-446



HCUDC45	522	576566	AC007324	20863	1-153
HCUDC45	522	576566	AC008079	20864	1-153
HCUDC45	522	576566	AC016830	20865	1-267
HCUDC45	522	576566	AC008101	20866	1-153
HCUDC79	523	576577	AL158832	20867	1-159
HCUDC79	523	576577	AL158832	20868	1-207 1185-2021 2333-2509
HCUDD19	524	959706	AC055737	20869	1-114 191-669 2037-2419 2589-2859 4005-4183 5303-6715
HCUDD19	524	959706	AC018450	20870	1-114 191-669 2037-2419 2589-2859 4005-4183 5303-6718
HCUDD19	524	959706	AC020648	20871	1-114 191-669 2037-2419 2589-2859 4005-4183 5303-6717
HCUDD19	524	959706	AC055737	20872	1-2548
HCUDD19	524	959706	AC055737	20873	1-179
HCUDD19	524	959706	AC018450	20874	1-179
HCUDD19	524	959706	AC020648	20875	1-2665
HCUDD19	524	959706	AC018450	20876	1-2663
HCUDD19	524	959706	AC020648	20877	1-179
HCUDD43	525	850103	AC015995	20878	1-275
HCUDD43	525	850103	AC073487	20879	1-447
HCUDD43	525	850103	AC023055	20880	1-447
HCUDD43	525	850103	AC023055	20881	1-327
HCUDD43	525	850103	AC073487	20882	1-1016
HCUDD43	525	850103	AC023055	20883	1-1016
HCUDD57	526	734883	AC025414	20884	1-697 722-3480
HCUDD57	526	734883	AC011802	20885	1-697 722-3480
HCUDD57	526	734883	AC025414	20886	1-898
HCUDD57	526	734883	AC011802	20887	1-898
HCUDF26	530	676949	AC069425	20888	1-803
HCUDF26	530	676949	AC069298	20889	1-803
HCUDF26	530	676949	AC022074	20890	1-803
HCUDF26	530	676949	AC069425	20891	1-1283
HCUDF26	530	676949	AC069298	20892	1-471
HCUDF26	530	676949	AC022074	20893	1-471
HCUDF26	530	676949	AC069425	20894	1-471
HCUDF26	530	676949	AC069298	20895	1-1283
HCUDF26	530	676949	AC022074	20896	1-1283
HCUDF33	531	577224	AC026706	20897	1-641
HCUDF33	531	577224	AC026725	20898	1-641
HCUDF90	532	958449	AC021353	20899	1-495

HCUDF90	532	958449	AC021353	20900	1-458
HCUDL94	536	915821	AC009488	20901	1-156 1908-2555 2666-3894 3983-4051 4310-4534 4624-4863 4922-5519
HCUDL94	536	915821	AF053356	20902	1-153 1905-2552 2663-3891 3980-4048 4307-4531 4621-4860 4919-5516
HCUDL94	536	915821	AC009488	20903	1-150
HCUDL94	536	915821	AC009488	20904	1-2490 2558-2731 2817-2982 3085-3256
HCUDL94	536	915821	AF053356	20905	1-2489 2557-2730 2816-2981 3084-3255
HCUDL94	536	915821	AF053356	20906	1-618
HCUDM23	537	462283	AC025866	20907	1-391
HCUDM23	537	462283	AC025866	20908	1-190
HCUDM23	537	462283	AC025866	20909	1-403
HCUDM66	538	506522	AC069339	20910	1-391
HCUDM66	538	506522	AC069339	20911	1-279
HCUDN09	539	850101	AC037198	20912	1-345 1263-5069
HCUDN14	540	862119	AL135916	20913	1-410
HCUDN14	540	862119	AL161433	20914	1-410
HCUDN14	540	862119	AL009030	20915	1-198 922-1331 1463-1780 2140-2321 2947-3294 3781-3863 4777-4898 5702-5878
HCUDN14	540	862119	AC011244	20916	1-299 1027-1436 1568-2015 2133-2823 2887-3398 3894-3979 4893-5014 5145-5614 5696-7528 7544-7570 7688-15819
HCUDN14	540	862119	AC023817	20917	1-329 1019-1428 1560-2007 2125-2816

					2880-3391 3878-3960 4195-4513 4874-4995 5126-5595 5677-6734
HCUDN14	540	862119	AL161433	20918	1-410
HCUDN14	540	862119	AL133255	20919	1-329 1018-1427 1559-2005 2123-2807 2871-3397 3861-3943 4178-4493 4495-4540 4860-4981 5112-5581 5785-5961 5964-6255 6275-6918 7924-8195 8309-8322 8570-8941 9606-9953 9995-10303 10360-11143 11160-11794 11862-12458
HCUDN14	540	862119	AL157879	20920	1-294 1031-1440 1572-2019 2137-2827 2891-3402 3877-3955
HCUDN14	540	862119	AL021368	20921	1-329 1031-1440 1572-2019 2137-2830 2894-3405 3888-3970 4881-5002 5805-5981 5984-6275 6295-6935 7936-8204 8580-8952 9218-9962 10004-10324 10370-11684
HCUDN14	540	862119	AL009030	20922	1-641
HCUDN14	540	862119	AC011244	20923	1-1398
HCUDN14	540	862119	AC023817	20924	1-216
HCUDN14	540	862119	AL009030	20925	1-2410 2441-3279 3428-8543 8996-9446 9718-10251

					10576-11693 11746-11961 12044-12372 13677-14050 14168-14347 14349-14859 14923-15285 15317-15425 15921-16003 16238-16556 17169-17638 17720-18762 18830-19550 19703-22302 22486-23468 23899-24025 24051-24585 24653-26442 26581-30248 31224-32376
HCUDN14	540	862119	AC023817	20926	1-459
HCUDN14	540	862119	AL133255	20927	1-90 115-171
HCUDN14	540	862119	AL133255	20928	1-217
HCUDN14	540	862119	AL157879	20929	1-319
HCUDN14	540	862119	AL021368	20930	1-318 386-985
HCUDN14	540	862119	AL157879	20931	1-216
HCUDN14	540	862119	AL021368	20932	1-301
HCUDP19	541	578721	AC048366	20933	1-151 1187-1781 4111-4153
HCUDP19	541	578721	AL359632	20934	1-595
HCUDP19	541	578721	AC048366	20935	1-308
HCUDP19	541	578721	AL359632	20936	1-141
HCUDP23	542	783051	AP000936	20937	1-556
HCUDP23	542	783051	AC022760	20938	1-556
HCUDP23	542	783051	AC022760	20939	1-108
HCUDP23	542	783051	AP000936	20940	1-212
HCUDP23	542	783051	AC022760	20941	1-212
HCUDP82	544	578720	AC009475	20942	1-594
HCUDP82	544	578720	AC009475	20943	1-119
HCUDP82	544	578720	AC009475	20944	1-164
HCUDQ61	545	839959	AC007823	20945	1-2212 2990-3304 3317-3576 3785-4192 4256-4364 4581-4696 6082-6303
HCUDQ61	545	839959	AC007620	20946	1-2212 2990-3304 3317-3576 3785-4192 4256-4364 4581-4696 6082-6295

HCUDQ61	545	839959	AC007823	20947	1-497
HCUDQ61	545	839959	AC007823	20948	1-468
HCUDQ61	545	839959	AC007620	20949	1-468
HCUDQ61	545	839959	AC007620	20950	1-497
HCUDS61	546	578705	AC002403	20951	1-493
HCUDS61	546	578705	AC021424	20952	1-495
HCUDS61	546	578705	U90095	20953	1-493
HCUDS61	546	578705	AC021424	20954	1-259
HCUDS61	546	578705	AC002403	20955	1-863
HCUDS61	546	578705	U90095	20956	1-259
HCUDS61	546	578705	U90095	20957	1-863
HCUDT62	547	747131	AC021163	20958	1-478 1530-2009 2259-3057 3589-3977 5001-5083 5175-5619 5665-6733 6832-7858
HCUDT62	547	747131	AC021163	20959	1-281
HCUDT65	548	915742	AC055866	20960	1-67 218-557 645-1103 1232-1367 1623-1769 1839-2048 2237-2331
HCUDW37	549	859268	AP000933	20961	1-1310
HCUDW37	549	859268	AP000933	20962	1-148 1695-1814 1832-2248 2339-3022
HCUDW37	549	859268	AP000933	20963	1-129
HCUDW74	550	576240	AL365206	20964	1-272
HCUDW74	550	576240	AC040894	20965	1-272
HCUDW74	550	576240	Z84480	20966	1-272
HCUDW74	550	576240	AL365206	20967	1-570 733-1174
HCUDW74	550	576240	AC040894	20968	1-570 733-1174
HCUDW74	550	576240	AL365206	20969	1-106
HCUDW74	550	576240	Z84480	20970	1-106
HCUDW74	550	576240	Z84480	20971	1-570 733-1174
HCUDX14	552	571370	AC002477	20972	1-1745 1841-2109 2173-2561 2773-2867 2912-3033 3055-3445 5956-6153
HCUDZ25	553	678365	AC010319	20973	1-386
HCUDZ25	553	678365	AC010319	20974	1-378
HCUDZ25	553	678365	AC010319	20975	1-862
HCUEA58	554	579029	AL031729	20976	1-309
HCUEA58	554	579029	AL031729	20977	1-194

HCUEA58	554	579029	AL031729	20978	1-355
HCUEA63	555	745183	AC003037	20979	1-628 1336-1527 1704-1909 3178-3712 3809-4542 4968-5388 5673-6032 6648-7379 9282-9530 9641-9746 10089-10534 11546-11681 12006-12179 13878-14363 14653-14761 16477-16599 18599-18667 19215-19318 19339-19491 19580-20050 20377-20470 21532-21996 22888-23018 23565-23673 24818-25950 26311-26439 27571-27690 28287-28905 28973-29085 30175-30660 31431-31759 31867-33452 33941-34878
HCUEA63	555	745183	AC003037	20980	1-331
HCUEA63	555	745183	AC003037	20981	1-4104 4567-4928 5025-5498 5710-5781 6049-6702 6828-6898 6921-7445 7907-8116 8410-8993 9291-9466 12841-12997 15098-15177
HCUEA72	556	713040	AC023891	20982	1-1560
HCUEA72	556	713040	AC023891	20983	1-855
HCUEC06	558	935769	AC010614	20984	1-128
HCUEC06	558	935769	AL354656	20985	1-118 343-735 1114-1305 1531-1639 2108-2171
HCUEC06	558	935769	AL354656	20986	1-258
HCUEC06	558	935769	AC010614	20987	1-192

HCUEC06	558	935769	AL354656	20988	1-208
HCUED04	560	615410	AL109851	20989	1-329
HCUED04	560	615410	AL109851	20990	1-368
HCUED66	561	576573	AL158801	20991	1-1019
HCUED66	561	576573	AL158801	20992	1-484
HCUED66	561	576573	AL158801	20993	1-117
HCUEE04	562	653118	AL121572	20994	1-509
HCUEE29	563	578709	AC010865	20995	1-1431
HCUEE29	563	578709	AC024014	20996	1-1432
HCUEE29	563	578709	AC010865	20997	1-1165
HCUEE29	563	578709	AC024014	20998	1-254
HCUEE29	563	578709	AC010865	20999	1-254
HCUEE29	563	578709	AC024014	21000	1-1165
HCUEE66	566	578702	AC073501	21001	1-423
HCUEE66	566	578702	AC016582	21002	1-423
HCUEE83	567	578703	AC023365	21003	1-492
HCUEE83	567	578703	AC021775	21004	1-492
HCUEE83	567	578703	AC027456	21005	1-98
HCUEG58	569	784414	AF024533	21006	1-127
HCUEG58	569	784414	AF030453	21007	1-127
HCUEG58	569	784414	AC005088	21008	1-126
HCUEG58	569	784414	AF024533	21009	1-101
HCUEG90	570	578745	AL356796	21010	1-211
HCUEG90	570	578745	AL356796	21011	1-301
HCUEJ55	571	959552	AC068085	21012	1-311
HCUEK37	573	964869	AC022966	21013	1-457
HCUEK37	573	964869	AC022966	21014	1-188
HCUEL28	574	706456	AC007021	21015	1-170
HCUEL91	575	576568	AC019048	21016	1-545
HCUEL91	575	576568	AC068481	21017	1-545
HCUEL91	575	576568	AC019048	21018	1-106
HCUEL91	575	576568	AC068481	21019	1-106
HCUEL91	575	576568	AC068481	21020	1-524
HCUEM23	576	576379	AC009935	21021	1-238
HCUEM23	576	576379	AC006531	21022	1-379
HCUEM23	576	576379	AC006531	21023	1-103
HCUEM35	577	861545	AC021923	21024	1-319
HCUEM62	578	576575	AC078846	21025	1-1169
HCUEM62	578	576575	AC078846	21026	1-438
HCUEM62	578	576575	AC078846	21027	1-594
HCUEN58	580	738225	AC069366	21028	1-677
HCUEN58	580	738225	AC069366	21029	1-470
HCUEN58	580	738225	AC069366	21030	1-300
HCUEO30	582	769203	AC068307	21031	1-107 694-750 3490-3810 4975-5447 6788-6906
HCUEO30	582	769203	AC024441	21032	1-435
HCUEO30	582	769203	AC024441	21033	1-321
HCUEO31	583	576551	AC016699	21034	1-218
HCUEO31	583	576551	AC016699	21035	1-251
HCUEO62	585	578713	AC017092	21036	1-388
HCUEO62	585	578713	AC011794	21037	1-388
HCUEO62	585	578713	AC008513	21038	1-388

HCUEO62	585	578713	AC017092	21039	1-489
HCUEO62	585	578713	AC011794	21040	1-476
HCUEO62	585	578713	AC008513	21041	1-486
HCUEQ37	588	881486	AL008718	21042	1-154 523-869 3563-3618 4367-4621 4829-5093 7139-7883 9036-9995 10015-10574 10829-11418 11631-11926 12043-12415 12713-13082 13618-13994 14263-14886 15647-15936 16231-16380 16542-16584 17518-18126 19027-19160 20468-20590 20968-23580
HCUEQ56	589	751410	AC008754	21043	1-823
HCUEQ56	589	751410	AC008754	21044	1-129
HCUEQ56	589	751410	AC008754	21045	1-862
HCUES29	590	579033	AC068012	21046	1-469
HCUES29	590	579033	AC006407	21047	1-471
HCUES29	590	579033	AC006407	21048	1-239
HCUES34	591	850096	AC025339	21049	1-393
HCUES34	591	850096	AC073052	21050	1-393
HCUES34	591	850096	AC025339	21051	1-155 1124-1243 1310-2120 2400-2684 3179-3414 3741-4547 4830-5354 5793-6195 7033-7586 7766-7908
HCUES34	591	850096	AC073052	21052	1-155 1126-1243 1310-2120 2484-2677 3181-3413
HCUES34	591	850096	AC073052	21053	1-112
HCUES93	592	576498	AC004821	21054	1-412
HCUES93	592	576498	AC004821	21055	1-36 374-511 1024-1137 2474-2952 2990-3112 3331-3444 3641-3738 3779-3952



					4042-4174 4257-5541
HCUEU10	595	964857	AC007281	21056	1-267
HCUEU20	596	970780	AC069271	21057	1-281
HCUEU20	596	970780	AC018843	21058	1-803
HCUEU20	596	970780	AC011599	21059	1-803
HCUEU20	596	970780	AC018505	21060	1-803
HCUEU20	596	970780	AC022377	21061	1-803
HCUEU20	596	970780	AC018831	21062	1-803
HCUEU20	596	970780	AC069271	21063	1-320
HCUEU20	596	970780	AC018843	21064	1-470
HCUEU20	596	970780	AC011599	21065	1-470
HCUEU20	596	970780	AC018505	21066	1-470
HCUEU20	596	970780	AC022377	21067	1-470
HCUEU20	596	970780	AC018831	21068	1-470
HCUEV65	599	750364	AC027373	21069	1-408
HCUEV65	599	750364	AC018781	21070	1-1168
HCUEV65	599	750364	AC027373	21071	1-782
HCUEV65	599	750364	AC018781	21072	1-155
HCUEV65	599	750364	AC018781	21073	1-782
HCUEV82	600	881370	AP002360	21074	1-131
HCUEV82	600	881370	AP002000	21075	1-131
HCUEV82	600	881370	AP002360	21076	1-89
HCUEV82	600	881370	AP002000	21077	1-89
HCUEW19	601	576513	AC010984	21078	1-310
					1364-1403 1418-1655
HCUEW19	601	576513	AC010984	21079	1-109
HCUEW19	601	576513	AC010984	21080	1-516
HCUEW58	602	850061	AC022951	21081	1-383
HCUEW58	602	850061	AC012659	21082	1-381
HCUEW58	602	850061	AC022951	21083	1-318
HCUEW58	602	850061	AC012659	21084	1-318
HCUEX58	604	462365	AL136082	21085	1-354
HCUEX74	605	953897	AC021455	21086	1-729
HCUEX74	605	953897	AC021455	21087	1-290
HCUFB15	611	660460	AP000936	21088	1-260
HCUFB15	611	660460	AC016669	21089	1-260
HCUFB15	611	660460	AP000936	21090	1-300
HCUFB15	611	660460	AC016669	21091	1-300
HCUFB15	611	660460	AC016669	21092	1-358
HCUFB89	612	746601	AL138724	21093	1-170
					753-1081 2977-3083 3291-3377 4018-4118 5806-5947 8678-8809 10925-11006
HCUFB89	612	746601	AL138724	21094	1-376
HCUFB89	612	746601	AL138724	21095	1-65 73-111
HCUFC22	613	951134	AC008389	21096	1-267
HCUFC22	613	951134	AC008388	21097	1-267
HCUFC22	613	951134	AC010609	21098	1-268
HCUFC22	613	951134	AC008389	21099	1-139

HCUFC22	613	951134	AC008389	21100	1-1382
HCUFC22	613	951134	AC008388	21101	1-1382
HCUFC22	613	951134	AC008388	21102	1-136
HCUFC22	613	951134	AC010609	21103	1-139
HCUFC22	613	951134	AC010609	21104	1-1382
HCUFD09	614	625728	AC015708	21105	1-749 852-1388
HCUFD09	614	625728	AL158813	21106	1-737 852-1388
HCUFD09	614	625728	AL158813	21107	1-295
HCUFD09	614	625728	AC015708	21108	1-295
HCUFH32	616	920281	AC016452	21109	1-440
HCUFH32	616	920281	AC011133	21110	1-429
HCUFH32	616	920281	AC004085	21111	1-440
HCUFH32	616	920281	AC004085	21112	1-242 362-569
HCUFH32	616	920281	AC004085	21113	1-399
HCUFK94	617	722999	AC026141	21114	1-502
HCUFK94	617	722999	AC011299	21115	1-502
HCUFK94	617	722999	AC026141	21116	1-591
HCUFK94	617	722999	AC011299	21117	1-591
HCUFL02	618	932429	AP000814	21118	1-133 204-2205
HCUFL02	618	932429	AP001187	21119	1-2002
HCUFL02	618	932429	AC000159	21120	1-245 2708-2870 2975-3088 4069-4173 4334-4434 4455-4580 4783-4881 4959-5123 5226-5273 7863-7937 8078-8215 9315-9461 9545-9683 9793-9869 11573-11645 13537-13623 13846-13924 14046-17031 17795-18179 18311-19373 19466-19578 19698-20172 20342-21923 22001-22680
HCUFL02	618	932429	AC000159	21121	1-373
HCUFL35	620	677853	AC073052	21122	1-470
HCUFL35	620	677853	AC025339	21123	1-470
HCUFL35	620	677853	AC073052	21124	1-282
HCUFL35	620	677853	AC025339	21125	1-282
HCUFL35	620	677853	AC073052	21126	1-760
HCUFL77	621	575843	AC026185	21127	1-860
HCUFL77	621	575843	AC018494	21128	1-898

HCUFL77	621	575843	AC018494	21129	1-425
HCUFM65	623	576809	AC069068	21130	1-1423
HCUFN65	624	741927	AL161430	21131	1-495
HCUFN65	624	741927	AC025797	21132	1-495
HCUFN65	624	741927	AL161430	21133	1-1455
HCUFN65	624	741927	AL161430	21134	1-1954
HCUFN65	624	741927	AC025797	21135	1-1954
HCUFP76	626	861703	AL133455	21136	1-491
HCUFP76	626	861703	AL133455	21137	1-303 607-748 2960-3223
HCUFQ80	628	709357	AL359254	21138	1-481
HCUFQ80	628	709357	AL137020	21139	1-481
HCUFU36	630	575831	AL356378	21140	1-538 612-862 1175-1319
HCUFU36	630	575831	AL356378	21141	1-660
HCUFU49	631	953896	AC027075	21142	1-258
HCUFU58	632	725891	AC007249	21143	1-519 675-1381
HCUFU58	632	725891	AC007249	21144	1-302
HCUFU58	632	725891	AC007249	21145	1-261
HCUFU68	633	694410	AC007747	21146	1-482
HCUFU68	633	694410	AL121787	21147	1-477
HCUFU68	633	694410	AL121787	21148	1-88
HCUFU91	634	828083	AC073501	21149	1-278
HCUFU91	634	828083	AC073501	21150	1-282
HCUFV13	635	578459	AC016197	21151	1-484
HCUFV13	635	578459	AC022022	21152	1-484
HCUFV13	635	578459	AC016197	21153	1-564
HCUFV13	635	578459	AC022022	21154	1-1418
HCUFV44	636	576650	AC006995	21155	1-2121 2527-2664 2854-3783 4555-4642 4937-5038 5813-5855 6054-6154 6293-6725 7140-7324 8426-8708 8978-9291 9643-10436 10781-10894
HCUFV44	636	576650	AC005098	21156	1-2122 2850-3780 4550-4637 4932-5027 5828-5870 6308-6740 7155-7340 8438-8720 8982-9307 9920-10355 10794-10907
HCUFV44	636	576650	AC004166	21157	1-2123

					2848-3320 3392-3753 4547-4634 4929-5024 5825-5867 6066-6166 6305-6737 7152-7337 8633-8717 8979-9304 9917-10327 10791-10867
HCUFV44	636	576650	AC004883	21158	1-2122 2847-4900 4923-5134 6361-6448 6743-6838 7639-7681 8119-8551 8966-9151 10249-10531 10793-11118 11468-11568 11731-12260 12605-12718
HCUFV44	636	576650	AC006995	21159	1-89
HCUFV44	636	576650	AC005098	21160	1-509
HCUFV44	636	576650	AC004166	21161	1-509
HCUFV44	636	576650	AC004883	21162	1-509
HCUFW41	637	850007	AC068641	21163	1-591
HCUFW41	637	850007	AC009522	21164	1-491 501-1445
HCUFW41	637	850007	AC073860	21165	1-494 504-1448
HCUFW41	637	850007	AC009522	21166	1-445
HCUFW41	637	850007	AC068641	21167	1-313
HCUFW41	637	850007	AC073860	21168	1-313
HCUFW41	637	850007	AC009522	21169	1-314
HCUFW41	637	850007	AC073860	21170	1-445
HCUFW61	638	862086	AL031666	21171	1-438
HCUFW61	638	862086	AL031666	21172	1-478
HCUFW75	639	575830	AC006512	21173	1-658 3090-3543 4479-5105 5885-6846 7103-9707 9914-10293 11523-12034 12067-12181 13769-14031 14199-14291 14584-14790 15123-15154 17039-17482 17539-17987 18697-19052 19112-19380

					20023-20268 21158-21598 21817-22221 23565-23665 23906-24076 24981-25506 25510-25861 25981-26645 26661-27449 27717-27812 27991-28024 28437-28888 29651-33442 33621-34089 34245-34808 34819-35284 35854-35960 38525-38771
HCUFW75	639	575830	AL356460	21174	1-1488 1588-1716 2931-3073 6554-6658 9098-10459 10650-11167 12010-12230 12299-12697 12717-13036 13370-13822 13909-14224 14268-14695 17385-17715 17812-18047 20669-20769 23441-23581 26125-26550 27281-27342 28204-28321 28726-29150 31153-31314 31375-33728 34014-34308 34343-34521 34662-35415 36638-36933
HCUFW75	639	575830	AC006512	21175	1-315 439-531 707-1080 1144-1227 1491-1845 2113-2321 2700-3556 3818-4307 4336-4813 4958-5775
HCUFW75	639	575830	AC006512	21176	1-738
HCUFW75	639	575830	AL356460	21177	1-383
HCUFX24	641	577266	AC066692	21178	1-413

HCUFX24	641	577266	AC066692	21179	1-448
HCUFX24	641	577266	AC066692	21180	1-86
HCUFY27	643	669876	AC026975	21181	1-122
HCUFY27	643	669876	AC026975	21182	1-199
HCUFY27	643	669876	AC026975	21183	1-344
HCUFY35	644	577130	AL136135	21184	1-573
HCUFY35	644	577130	AL136135	21185	1-596
HCUFY35	644	577130	AL136135	21186	1-112
HCUFY40	645	967273	AL161908	21187	1-272
HCUFY40	645	967273	AL359640	21188	1-272
HCUFY40	645	967273	AL358947	21189	1-272
HCUFZ81	646	878882	AC013717	21190	1-244
HCUFZ81	646	878882	AC013717	21191	1-148
HCUGB48	647	880730	AC016669	21192	1-887
HCUGB48	647	880730	AC016669	21193	1-288
HCUGC96	648	575825	AC022886	21194	1-342 1486-2189 4882-5066
HCUGC96	648	575825	AC021425	21195	1-704
HCUGD15	649	660343	AC013264	21196	1-1147
HCUGD15	649	660343	AC013264	21197	1-513
HCUGG25	652	678112	AC073266	21198	1-428
HCUGG25	652	678112	AC073266	21199	1-105
HCUGH01	653	916600	AC027446	21200	1-319
HCUGH30	654	778735	AL157707	21201	1-864 1621-2105
HCUGH30	654	778735	AL390318	21202	1-863 1620-2104
HCUGH30	654	778735	AC010161	21203	1-863 1620-2104
HCUGH30	654	778735	AL390318	21204	1-320
HCUGH34	655	706469	AC027165	21205	1-603
HCUGH83	656	862078	AP000153	21206	1-198
HCUGH83	656	862078	AP001437	21207	1-198
HCUGH83	656	862078	AP000153	21208	1-100
HCUGH83	656	862078	AP001437	21209	1-100
HCUGJ35	659	850046	AC022278	21210	1-1528 2460-2820 3265-3854 3907-5076
HCUGK10	660	850035	AC073530	21211	1-377
HCUGK10	660	850035	AC073530	21212	1-216
HCUGK91	661	790218	AC007685	21213	1-701
HCUGK91	661	790218	AC007685	21214	1-735
HCUGL84	663	496491	AL121784	21215	1-315
HCUGL84	663	496491	AC007374	21216	1-315
HCUGM08	664	959488	AC026088	21217	1-344
HCUGN12	665	970727	AL138968	21218	1-938
HCUGN12	665	970727	AL138968	21219	1-417
HCUGN12	665	970727	AL138968	21220	1-598
HCUGP83	667	850029	AC026975	21221	1-90 596-896 1368-1489 1499-2819 2945-3399 3703-3793

					5708-5763
HCUGR82	671	916538	AC068012	21222	1-584
HCUGR82	671	916538	AC006407	21223	1-584
HCUGU46	673	666815	AL357044	21224	1-412
HCUGU46	673	666815	AL118511	21225	1-412
HCUGU46	673	666815	AL118511	21226	1-104
HCUGV38	674	850032	AC027644	21227	1-320 374-495 509-1768
HCUGV38	674	850032	AC027644	21228	1-1807
HCUGV38	674	850032	AC027644	21229	1-162
HCUGV60	675	496443	AC048338	21230	1-454
HCUGZ15	678	792418	AC010736	21231	1-574
HCUGZ15	678	792418	AC010736	21232	1-619
HCUHB30	681	850018	AC073580	21233	1-248 268-761 806-989 1080-1559 1806-2291 2504-2602 2722-3086 3247-4184 4246-4797 5605-5701
HCUHB30	681	850018	AC073580	21234	1-287
HCUHC25	682	920830	AC011571	21235	1-389 2032-2214
HCUHC25	682	920830	AL358933	21236	1-55 877-987 3455-3793 4518-4928 6560-6742
HCUHC25	682	920830	AL121944	21237	1-1181 2839-2984 2987-3108 3254-3395 3676-3712 4031-4085 4907-5017 7485-7823 8548-8958 10590-10772
HCUHC25	682	920830	AC011571	21238	1-339
HCUHC25	682	920830	AL121944	21239	1-378
HCUHC41	683	712343	AC025405	21240	1-490 511-768
HCUHC41	683	712343	AL354740	21241	1-490 511-768
HCUHC41	683	712343	AC025405	21242	1-677
HCUHC41	683	712343	AC025405	21243	1-129
HCUHC41	683	712343	AL354740	21244	1-129
HCUHC41	683	712343	AL354740	21245	1-829
HCUHD50	686	650854	AC022559	21246	1-424
HCUHD55	687	705384	AC073838	21247	1-1100
HCUHD55	687	705384	AC021016	21248	1-606
HCUHD55	687	705384	AC073838	21249	1-646

HCUHD55	687	705384	AC073838	21250	1-136 265-419 928-1200
HCUHD55	687	705384	AC021016	21251	1-136 265-419 928-1200
HCUHD55	687	705384	AC021016	21252	1-483
HCUHE23	688	675910	AL161785	21253	1-301
HCUHE31	689	693311	AC073241	21254	1-320
HCUHE31	689	693311	AC073241	21255	1-127
HCUHE31	689	693311	AC073241	21256	1-499
HCUHE48	691	835917	AC026057	21257	1-714
HCUHE48	691	835917	AC026046	21258	1-873 1752-2022 2527-2885 3248-3334 3934-4104 5310-5762 6021-6130 6302-6885 7484-7843 8208-8814 9367-9470 10480-10770 10884-11125
HCUHE48	691	835917	AC026057	21259	1-370
HCUHE48	691	835917	AC026046	21260	1-650
HCUHE76	692	666599	AC025289	21261	1-320
HCUHE76	692	666599	AC010373	21262	1-317
HCUHE76	692	666599	AC002492	21263	1-320
HCUHE76	692	666599	AC025289	21264	1-387
HCUHE76	692	666599	AC010373	21265	1-387
HCUHE76	692	666599	AC002492	21266	1-387
HCUHF41	694	878528	AC022021	21267	1-111
HCUHF41	694	878528	AC074300	21268	1-391 1896-2418
HCUHF41	694	878528	AC074300	21269	1-205
HCUHI34	696	923803	AC016757	21270	1-1147 1574-2170 3047-4275
HCUHI34	696	923803	AC016757	21271	1-561
HCUHI34	696	923803	AC016757	21272	1-1823
HCUHI54	697	720378	AC073950	21273	1-357
HCUHI54	697	720378	AC068232	21274	1-357
HCUHI54	697	720378	AC022890	21275	1-358
HCUHJ12	698	970782	AL031708	21276	1-658
HCUHJ12	698	970782	AL031708	21277	1-116
HCUHJ30	700	966583	AC015656	21278	1-666
HCUHJ30	700	966583	AC015656	21279	1-787
HCUHM61	703	576561	AC016927	21280	1-488
HCUHM61	703	576561	AC024903	21281	1-488
HCUHM61	703	576561	AC020978	21282	1-488
HCUHM61	703	576561	AC016927	21283	1-243
HCUHM61	703	576561	AC024903	21284	1-243
HCUHM61	703	576561	AC016927	21285	1-234
HCUHM61	703	576561	AC024903	21286	1-234



HCUHM61	703	576561	AC020978	21287	1-243
HCUHM61	703	576561	AC020978	21288	1-234
HCUHO60	705	576563	AP000050	21289	1-250
HCUHO60	705	576563	AP000117	21290	1-250
HCUHO60	705	576563	AP000193	21291	1-250
HCUHO60	705	576563	AP000050	21292	1-278
HCUHO60	705	576563	AP000117	21293	1-278
HCUHO60	705	576563	AP000193	21294	1-278
HCUHP20	706	669737	AL161915	21295	1-1425 1607-2049 2376-2558 2812-3313 3684-4054 4323-4904 5133-5822 5831-6233 7655-7757 7985-8344 8461-8920 9925-10079 11639-11730 12091-12508 12605-12696 13265-13630 16734-16843 17508-17995 19699-20051 20152-20456 20465-21835
HCUHP20	706	669737	AL353898	21296	1-1425 1607-2049 2376-2558 2812-3313 3684-4054 4321-4901 5130-5819 5828-6230 7652-7754 7982-8341 8458-8917 9914-10068 11628-11719 12080-12497 12594-12685 13254-13619 16723-16832 17497-17984 19694-20046 20147-20451 20460-21830 23249-23779 24379-25638 26019-26761 27223-27579
HCUHQ33	708	575800	AC020651	21297	1-208
HCUHQ33	708	575800	AC021467	21298	1-208
HCUHQ37	709	850010	AP000562	21299	1-922

HCUHQ37	709	850010	AP000763	21300	1-1386
HCUHQ37	709	850010	AP000763	21301	1-414
HCUHQ37	709	850010	AP000562	21302	1-414
HCUHQ37	709	850010	AP000763	21303	1-433
HCUHS19	711	566809	AC068641	21304	1-591
HCUHS19	711	566809	AC009522	21305	1-491 501-1445
HCUHS19	711	566809	AC073860	21306	1-494 504-1448
HCUHS19	711	566809	AC009522	21307	1-445
HCUHS19	711	566809	AC068641	21308	1-313
HCUHS19	711	566809	AC073860	21309	1-313
HCUHS19	711	566809	AC009522	21310	1-314
HCUHS19	711	566809	AC073860	21311	1-445
HCUHS60	712	850009	AL138898	21312	1-400
HCUHS60	712	850009	AL138898	21313	1-313
HCUHS60	712	850009	AL138898	21314	1-702
HCUHT21	713	577265	AC025321	21315	1-875
HCUHT21	713	577265	AP000977	21316	1-874
HCUHT21	713	577265	AP002365	21317	1-875
HCUHT21	713	577265	AC025321	21318	1-313
HCUHT21	713	577265	AP000977	21319	1-313
HCUHT21	713	577265	AP002365	21320	1-313
HCUHT56	714	722649	AL121808	21321	1-298 433-904
HCUHT56	714	722649	AL121808	21322	1-120
HCUHU68	715	577795	Z98883	21323	1-260
HCUHW54	716	730716	AL137799	21324	1-1372 1893-2026 4306-4482 4576-4849 5251-5421 5429-5539 5812-5941 5998-6115
HCUHW54	716	730716	AL157894	21325	1-111
HCUHW54	716	730716	AL122001	21326	1-111
HCUHW54	716	730716	AL157894	21327	1-712 1233-1366 3646-3822 3916-4189 4591-4761
HCUHW54	716	730716	AL157894	21328	1-105
HCUHW54	716	730716	AL122001	21329	1-843 2402-2838 3590-4088 4287-5795 5823-7049 7473-7550 7791-7890 8364-8687 8949-9064 10239-10517 12066-12193 12628-12869 14063-14185

					15602-15751 16137-16292 16666-16956 17262-17481 18076-18588 19202-19391 19857-19981 20909-21222 21544-21698 22059-22200 22449-23820 24341-24474 26754-26930 27024-27297 27699-27869
HCUHW54	716	730716	AL122001	21330	1-114
HCUHW59	717	739329	AL078461	21331	1-641
HCUHW59	717	739329	AL078461	21332	1-388
HCUHW59	717	739329	AL078461	21333	1-274
HCUHY49	718	577887	AL121841	21334	1-327
HCUHY49	718	577887	AL121841	21335	1-529
HCUIJ35	720	713818	AC007908	21336	1-446
HCUIJ35	720	713818	AC007908	21337	1-396
HCUIJ35	720	713818	AC007908	21338	1-414
HCUIL80	721	577172	AC005200	21339	1-229
HCUIL80	721	577172	AC008605	21340	1-219
HCUIL80	721	577172	AC011432	21341	1-238
HCUIL80	721	577172	AC005200	21342	1-111
HCUIL80	721	577172	AC008605	21343	1-935
HCUIL80	721	577172	AC011432	21344	1-935
HCUIL80	721	577172	AC011432	21345	1-111
HCUIM51	722	725724	AC023148	21346	1-631 963-1448
HCUIM51	722	725724	AC023148	21347	1-358
HCUIM51	722	725724	AC023148	21348	1-88
HCUIN18	723	666537	AC024386	21349	1-1094
HCUIN18	723	666537	AC024386	21350	1-514
HCUIO82	724	883812	AC025983	21351	1-188
HCUIO82	724	883812	AC025983	21352	1-414
HCVAC18	725	889480	AL356004	21353	1-170
HCVAC18	725	889480	AC022965	21354	1-170
HCVAC18	725	889480	AL356004	21355	1-351
HCVAC18	725	889480	AL356004	21356	1-228
HCVAC18	725	889480	AC022965	21357	1-228
HCWAA20	726	669991	AC013322	21358	1-121
HCWAB01	727	921689	AC025552	21359	1-443
HCWAB01	727	921689	AC025552	21360	1-105
HCWAB01	727	921689	AC025552	21361	1-271
HCWAB44	728	669714	AC023785	21362	1-415
HCWAB44	728	669714	AC013743	21363	1-415
HCWAB44	728	669714	AC023785	21364	1-129
HCWAB44	728	669714	AC013743	21365	1-129
HCWAB44	728	669714	AC013743	21366	1-315
HCWAB50	729	724684	AC037489	21367	1-1353
HCWAB50	729	724684	AC037489	21368	1-636
HCWAB50	729	724684	AC037489	21369	1-289

HCWAB67	731	529658	AC020706	21370	1-125
HCWAB67	731	529658	AC020706	21371	1-721
HCWAB80	732	959937	AC073185	21372	1-428
HCWAB80	732	959937	AC011473	21373	1-428
HCWAB92	733	523447	AC053524	21374	1-303
HCWAC68	734	529653	AL353639	21375	1-348
HCWAC68	734	529653	AL353577	21376	1-348
HCWAF02	737	920993	AL157411	21377	1-666
HCWAF02	737	920993	AC026928	21378	1-667
HCWAF02	737	920993	AL157411	21379	1-426
HCWAF02	737	920993	AC026928	21380	1-426
HCWAF45	738	723452	AC003957	21381	1-2074 2208-2961 3846-4003 5779-6211 6777-7408 8068-8181 8797-9010 10161-10689
HCWAF45	738	723452	AJ009617	21382	1-2074 2208-2432 2773-2964 3849-4006 5783-6215 6781-7427 8087-8200 8816-9029 10180-10708
HCWAF80	740	529498	AL109916	21383	1-1771
HCWAF80	740	529498	AL158035	21384	1-1771
HCWAF80	740	529498	AL109916	21385	1-332
HCWAF80	740	529498	AL109916	21386	1-319
HCWAF80	740	529498	AL158035	21387	1-332
HCWAF80	740	529498	AL158035	21388	1-319
HCWAG20	741	839796	AC016045	21389	1-306
HCWAH52	743	574929	AC010537	21390	1-430
HCWAI93	744	523536	AL121586	21391	1-397
HCWAI93	744	523536	AL139226	21392	1-397
HCWAI93	744	523536	AL121586	21393	1-375
HCWAI93	744	523536	AL121586	21394	1-107
HCWAI93	744	523536	AL139226	21395	1-375
HCWAI93	744	523536	AL139226	21396	1-107
HCWAI58	746	740987	AL357500	21397	1-473
HCWAK51	747	751640	AL356285	21398	1-311
HCWAK51	747	751640	AL138817	21399	1-311
HCWAK51	747	751640	AL138817	21400	1-476
HCWAK80	748	702435	AC069204	21401	1-559
HCWAL22	750	579046	AC005327	21402	1-107 2527-2576 2659-2939 3786-3924 4335-4491 5742-6149 6493-7117 8913-9611 9724-9855

					10449-10598 11026-11182 11261-11513 12218-12404
HCWAL22	750	579046	AC005327	21403	1-152
HCWAL22	750	579046	AC005327	21404	1-109
HCWAL39	751	861893	AC012264	21405	1-585
HCWAL39	751	861893	AC012264	21406	1-767
HCWAL39	751	861893	AC012264	21407	1-546
HCWAM49	754	849980	AL162734	21408	1-500
HCWAM49	754	849980	AL353807	21409	1-500
HCWAM49	754	849980	AC044819	21410	1-468
HCWAM49	754	849980	AL353807	21411	1-468
HCWAM49	754	849980	AL353807	21412	1-242
HCWAN17	755	966646	AL356273	21413	1-363 411-1064 1455-2399
HCWAN17	755	966646	AL356273	21414	1-863
HCWAN17	755	966646	AL356273	21415	1-320
HCWAP63	757	523259	AL133509	21416	1-653
HCWAP63	757	523259	AL022067	21417	1-653
HCWAP63	757	523259	AL133509	21418	1-183
HCWAP63	757	523259	AL022067	21419	1-183
HCWAR63	761	523255	AL353591	21420	1-436
HCWAR63	761	523255	AL121935	21421	1-436
HCWAR63	761	523255	AL353747	21422	1-436
HCWAR63	761	523255	AL353591	21423	1-333
HCWAR63	761	523255	AL121935	21424	1-333
HCWAR63	761	523255	AL353747	21425	1-333
HCWAR76	762	529652	AC008795	21426	1-493
HCWAR76	762	529652	AC011145	21427	1-493
HCWAR76	762	529652	AC011145	21428	1-273
HCWAR76	762	529652	AC008795	21429	1-292
HCWAR84	763	529241	AC010877	21430	1-200
HCWAR84	763	529241	AC005820	21431	1-200
HCWAT16	764	523125	AP001977	21432	1-367
HCWAT16	764	523125	AP001977	21433	1-374
HCWAU89	767	589836	AL358412	21434	1-470
HCWAU89	767	589836	AL358412	21435	1-387
HCWAU89	767	589836	AL358412	21436	1-386
HCWAV75	768	849976	AC012291	21437	1-1778 1781-1957 2043-2363 2713-2892 4084-4790 5686-6091 7733-8602 9714-10226 10287-10384 11933-12221 12816-13259 13787-14103 14986-15076 15346-15505 15617-15906 16128-16243

					16875-17012 17290-18033 18072-18373 18782-21480
HCWAV75	768	849976	AC010757	21438	1-1779 1781-1957 2043-2363 2713-2892 5684-6089 7732-8601 9713-10225 10286-10383 11930-12218 12827-13257 13784-14100 14983-15073 15343-15502 15614-15903 16125-16240 16872-17009 17287-18030 18069-18370 18779-21477
HCWAV75	768	849976	AC012291	21439	1-1855
HCWAV75	768	849976	AC010757	21440	1-1855
HCWAY41	769	542388	AC008853	21441	1-467
HCWAZ66	772	523243	AL355032	21442	1-421
HCWAZ66	772	523243	AL137779	21443	1-421
HCWAZ66	772	523243	AL355032	21444	1-819
HCWAZ66	772	523243	AL137779	21445	1-498
HCWAZ66	772	523243	AL137779	21446	1-819
HCWAZ73	773	523299	AC009133	21447	1-637
HCWAZ73	773	523299	AC009133	21448	1-733
HCWAZ73	773	523299	AC009133	21449	1-149 809-940 953-1562 1613-2034 2376-3566
HCWBA18	775	529224	AC008731	21450	1-193
HCWBA18	775	529224	AC008731	21451	1-266
HCWBA18	775	529224	AC008731	21452	1-635
HCWBA49	777	723359	AC011431	21453	1-336
HCWBA49	777	723359	AC005576	21454	1-336
HCWBA49	777	723359	AC005576	21455	1-363
HCWBA49	777	723359	AC005576	21456	1-305
HCWBA50	778	835532	AC009696	21457	1-377
HCWBA50	778	835532	AC015905	21458	1-377
HCWBA55	779	529222	AL133323	21459	1-598
HCWBA55	779	529222	AL133323	21460	1-133
HCWBA55	779	529222	AL133323	21461	1-838
HCWBA64	780	715579	AC012405	21462	1-194
HCWBA64	780	715579	AC011126	21463	1-194
HCWBB27	781	967045	AC025620	21464	1-391
HCWBB27	781	967045	AC074292	21465	1-391
HCWBB27	781	967045	AC027544	21466	1-391
HCWBC16	783	529350	AC027644	21467	1-1807

HCWBC16	783	529350	AC027644	21468	1-1260 1274-1395 1449-1768
HCWBC28	784	584778	AL162457	21469	1-350
HCWBC28	784	584778	AL162457	21470	1-261
HCWBC32	785	574909	AP000933	21471	1-658
HCWBC54	786	573188	AC016953	21472	1-215 500-1196 1249-1444 3222-3370 3870-3977 4172-4499 4677-5094 5806-5921 7242-7343 7717-8446 8779-9234 9629-9931 10188-10290 10386-10743 10849-11509 11795-12681 12719-12794 12841-12952 13740-13865 14194-15782 16120-16162 16703-18302 18399-18505 19872-20300 21070-21216 21619-21761
HCWBC54	786	573188	AC016953	21473	1-354
HCWBC61	787	728666	AC021980	21474	1-314
HCWBC61	787	728666	AC007679	21475	1-314
HCWBC61	787	728666	AC021980	21476	1-159
HCWBC61	787	728666	AC007679	21477	1-159
HCWBC69	788	849971	AL356275	21478	1-480
HCWBC69	788	849971	AL354881	21479	1-480
HCWBC69	788	849971	AL354881	21480	1-924
HCWBC69	788	849971	AL356275	21481	1-532
HCWBC69	788	849971	AL354881	21482	1-532
HCWBE37	793	542403	AL109760	21483	1-478
HCWBE37	793	542403	AL109760	21484	1-110
HCWBE49	794	932196	AC019276	21485	1-421
HCWBE51	795	782317	AC016042	21486	1-538
HCWBE51	795	782317	AL355530	21487	1-538
HCWBE51	795	782317	AC016042	21488	1-367
HCWBE51	795	782317	AC016042	21489	1-351
HCWBE51	795	782317	AL355530	21490	1-367
HCWBE51	795	782317	AL355530	21491	1-349
HCWBE71	798	688011	AC021404	21492	1-598
HCWBE71	798	688011	AL359377	21493	1-598
HCWBE76	799	968515	AC023603	21494	1-147
HCWBE76	799	968515	AC023603	21495	1-378
HCWBE76	799	968515	AC023603	21496	1-841

HCWBG30	801	920530	AC025446	21497	1-292
HCWBG30	801	920530	AC025171	21498	1-292
HCWBG30	801	920530	AC025446	21499	1-463
HCWBG30	801	920530	AC025171	21500	1-462
HCWBG30	801	920530	AC025171	21501	1-382
HCWBG40	802	676588	AC008576	21502	1-556
HCWBG40	802	676588	AC008576	21503	1-102
HCWBG43	804	689743	AC024395	21504	1-204
HCWBG43	804	689743	AC068588	21505	1-204
HCWBG43	804	689743	AC068588	21506	1-460
HCWBI17	807	954153	AC002316	21507	1-457
HCWBI17	807	954153	AC002316	21508	1-202
HCWBI77	811	529238	AC013413	21509	1-231
HCWBI77	811	529238	AC013403	21510	1-231
HCWBI77	811	529238	AC013413	21511	1-176
HCWBI77	811	529238	AC013403	21512	1-84
HCWBJ02	813	917300	AC011389	21513	1-442
HCWBJ02	813	917300	AC011389	21514	1-430
HCWBJ61	815	849967	AL139095	21515	1-201 308-420
HCWBJ61	815	849967	AL139095	21516	1-321
HCWBJ66	816	529228	AL080247	21517	1-102
HCWBJ66	816	529228	AL022328	21518	1-102
HCWBJ75	817	935579	AC013303	21519	1-1010
HCWBJ75	817	935579	AC013303	21520	1-513
HCWBJ75	817	935579	AC013303	21521	1-664
HCWBL38	820	935481	AC010934	21522	1-86 340-460 3984-4049 4541-4642 6849-6951 7624-7707 9920-10079 10719-11005 11360-11762 11928-12350 12522-12661 13596-14781
HCWBL38	820	935481	AC010934	21523	1-101
HCWBM04	822	861842	AC074032	21524	1-1666 1783-2591 3023-3196 3201-3364 3447-4235 4425-4558 4895-5530
HCWBM04	822	861842	AC074032	21525	1-188
HCWBM50	823	577712	AL160276	21526	1-413
HCWBM50	823	577712	AL160276	21527	1-349
HCWBM50	823	577712	AL160276	21528	1-323
HCWBM95	824	849932	AC013486	21529	1-1021
HCWBM95	824	849932	AC013486	21530	1-675
HCWBN06	825	924638	AC025335	21531	1-381
HCWBO10	826	842038	AC022911	21532	1-396
HCWBO10	826	842038	AC011726	21533	1-396
HCWBO10	826	842038	AC022911	21534	1-525



HCWBO10	826	842038	AC011726	21535	1-525
HCWBO23	827	964590	AC073087	21536	1-170
HCWBO23	827	964590	AC073150	21537	1-170
HCWBO23	827	964590	AC007130	21538	1-170
HCWBO23	827	964590	AC073150	21539	1-286
HCWBO23	827	964590	AC073150	21540	1-344
HCWBO23	827	964590	AC007130	21541	1-280
HCWBO23	827	964590	AC007130	21542	1-344
HCWBO94	828	574861	AC012171	21543	1-453 662-1183 1688-2046 2552-2895 5176-5385 5613-7953 7964-8453 8613-8998 9001-9528 10043-10465 10594-10713 11006-11287 11297-12256 12370-12580 13543-13831 14060-14646 15490-17915 18037-18423 18433-18697 18870-18973 19161-20323
HCWBO94	828	574861	AC024088	21544	1-373
HCWBO94	828	574861	AC007162	21545	1-202 411-932 1436-1794 2300-2643 4922-5131 5358-7697 7708-8197 8357-8741 8744-9272 9787-10209 10338-10457 10750-11031 11041-12000 12039-12324 13288-13576 13805-14390 15234-17659 17781-18167 18177-18444 18615-18718 18906-20068
HCWBO94	828	574861	AC009065	21546	1-387
HCWBO94	828	574861	AC005212	21547	1-198 407-928 1433-1791 2297-2640 4920-5129

					5357-7696 7707-8196 8356-8741 8744-9272 9787-10209 10338-10457 10750-11031 11041-12000 12114-12318 13804-14390 15234-17659 17781-18167 18177-18446 18905-20067
HCWBO94	828	574861	AC012171	21548	1-110
HCWBO94	828	574861	AC024088	21549	1-656
HCWBO94	828	574861	AC007162	21550	1-237
HCWBO94	828	574861	AC009065	21551	1-2426
HCWBO94	828	574861	AC007162	21552	1-110
HCWBO94	828	574861	AC005212	21553	1-237
HCWBO94	828	574861	AC005212	21554	1-110
HCWBP56	830	733662	AC018590	21555	1-220
HCWBP56	830	733662	AP001526	21556	1-226
HCWBP56	830	733662	AC063958	21557	1-752 2898-3193 4752-4858 4984-5079
HCWBP56	830	733662	AC023169	21558	1-92
HCWBP56	830	733662	AC025422	21559	1-199
HCWBP56	830	733662	AC002110	21560	1-101
HCWBP56	830	733662	AC022118	21561	1-1212 3358-3653 5212-5321 5444-5539 9251-9324
HCWBP56	830	733662	AC022118	21562	1-383
HCWBP70	831	757467	AC022971	21563	1-431
HCWBP70	831	757467	AC004934	21564	1-431
HCWBP74	832	765881	AC025243	21565	1-376
HCWBP74	832	765881	AC025243	21566	1-409
HCWBP74	832	765881	AC025243	21567	1-127
HCWBQ74	837	526537	AC068340	21568	1-375
HCWBQ74	837	526537	AC068340	21569	1-151
HCWBQ74	837	526537	AC068340	21570	1-491
HCWBR06	839	527692	AL135795	21571	1-442 669-773 784-1178
HCWBS67	842	842037	AC008630	21572	1-83 157-299 681-1012 1557-1654 2179-2501 2568-2937 2996-3314
HCWBS67	842	842037	AC025556	21573	1-370
HCWBS67	842	842037	AC025556	21574	1-306

HCWBS67	842	842037	AC025556	21575	1-321
HCWBS96	843	954028	AC069495	21576	1-348 3003-4292 4699-4984
HCWBT31	845	720016	AC018692	21577	1-449
HCWBT31	845	720016	AC018692	21578	1-620
HCWBT48	846	527676	AC027250	21579	1-587
HCWBT48	846	527676	AC017038	21580	1-587
HCWBT48	846	527676	AC027250	21581	1-490
HCWBT48	846	527676	AC017038	21582	1-490
HCWBT86	847	927506	AC019119	21583	1-339
HCWBT86	847	927506	AC023820	21584	1-413 466-1296 2041-2210 2312-2581 22533-22618 29429-29711 32494-32832 36221-42488
HCWBT86	847	927506	AC023820	21585	1-970
HCWBT86	847	927506	AC023820	21586	1-359
HCWBU09	848	527562	AC012455	21587	1-336
HCWBU09	848	527562	AC067791	21588	1-336
HCWBU24	849	861864	AL139039	21589	1-282
HCWBU49	850	850014	AC018571	21590	1-361
HCWBU49	850	850014	AC046185	21591	1-361
HCWBU49	850	850014	AC018571	21592	1-878
HCWBU49	850	850014	AC046185	21593	1-878
HCWBU49	850	850014	AC046185	21594	1-33 4030-4387 5173-5274
HCWBV96	854	796584	AP001075	21595	1-580
HCWBV96	854	796584	AP000807	21596	1-393
HCWBV96	854	796584	AP001075	21597	1-437
HCWBV96	854	796584	AP000807	21598	1-437
HCWBX75	858	767491	AC026727	21599	1-270
HCWBX75	858	767491	AC012426	21600	1-126
HCWBX75	858	767491	AC013770	21601	1-270
HCWCB37	861	527683	AL133288	21602	1-1022
HCWCB37	861	527683	AL133288	21603	1-284
HCWCB80	862	529234	AC073598	21604	1-345
HCWCB80	862	529234	AL138752	21605	1-345
HCWCB80	862	529234	AC073598	21606	1-856
HCWCB80	862	529234	AL138752	21607	1-856
HCWCB80	862	529234	AL138752	21608	1-1141 2164-2338
HCWCC77	865	527077	AL355860	21609	1-423
HCWCC77	865	527077	AC027437	21610	1-423
HCWCC77	865	527077	AL355860	21611	1-275
HCWCC77	865	527077	AC027437	21612	1-275
HCWCC77	865	527077	AL355860	21613	1-497
HCWCC77	865	527077	AC027437	21614	1-497
HCWCE02	867	849968	AC008980	21615	1-87
HCWCE02	867	849968	AC025899	21616	1-1813
HCWCE02	867	849968	AC067868	21617	1-1813
HCWCE02	867	849968	AC025899	21618	1-887

HCWCE02	867	849968	AC025899	21619	1-474
HCWCE02	867	849968	AC067868	21620	1-886
HCWCE02	867	849968	AC067868	21621	1-474
HCWCE21	868	523224	AC024293	21622	1-433
HCWCE21	868	523224	AC024293	21623	1-134
HCWCE35	869	706489	AC005995	21624	1-293
HCWCE35	869	706489	AC073343	21625	1-294
HCWCE35	869	706489	AC004983	21626	1-63 4211-4504 4558-4709 5148-5176
HCWCE35	869	706489	AC005995	21627	1-272
HCWCE35	869	706489	AC004983	21628	1-115
HCWCE63	870	527678	AC013709	21629	1-385
HCWCE63	870	527678	AC013709	21630	1-100
HCWCE69	871	757800	AL139084	21631	1-311
HCWCE69	871	757800	AL139038	21632	1-311
HCWCE69	871	757800	AL391122	21633	1-311
HCWCE71	872	932549	AC012342	21634	1-147
HCWCE71	872	932549	AC068013	21635	1-125
HCWCE71	872	932549	AC009997	21636	1-117
HCWCE71	872	932549	AC015734	21637	1-137
HCWCE71	872	932549	AC074269	21638	1-166
HCWCE71	872	932549	AP002357	21639	1-170
HCWCE71	872	932549	AC022813	21640	1-161
HCWCE71	872	932549	AL356584	21641	1-117
HCWCE71	872	932549	AC024380	21642	1-157
HCWCE71	872	932549	AC002037	21643	1-72
HCWCE71	872	932549	AC005933	21644	1-52
HCWCE71	872	932549	AC018570	21645	1-131
HCWCE71	872	932549	AC009562	21646	1-95
HCWCE71	872	932549	AC009502	21647	1-122
HCWCE71	872	932549	AL355392	21648	1-126
HCWCE71	872	932549	AC011111	21649	1-115
HCWCE71	872	932549	AC022025	21650	1-141
HCWCE71	872	932549	AC034240	21651	1-141
HCWCE71	872	932549	AC008439	21652	1-125
HCWCE71	872	932549	AC024502	21653	1-163
HCWCE71	872	932549	AC068594	21654	1-121
HCWCE71	872	932549	AC068025	21655	1-127
HCWCE71	872	932549	AC022083	21656	1-144
HCWCE71	872	932549	AC012118	21657	1-289
HCWCE71	872	932549	AC034138	21658	1-289
HCWCE71	872	932549	AC002351	21659	1-82 959-2236
HCWCE71	872	932549	AC022083	21660	1-131
HCWCE71	872	932549	AC012342	21661	1-413 437-758
HCWCE71	872	932549	AC024380	21662	1-154
HCWCE71	872	932549	AC012118	21663	1-252 1886-2376 3124-3156
HCWCE71	872	932549	AC012118	21664	1-230
HCWCE71	872	932549	AC034138	21665	1-230
HCWCE71	872	932549	AC034138	21666	1-252 1885-2375

					3123-3155
HCWCE71	872	932549	AC002351	21667	1-115
HCWCG31	878	527090	AC016446	21668	1-317
HCWCG31	878	527090	AC016446	21669	1-105
HCWCG62	879	575336	AC011743	21670	1-174 294-500 666-1543 1691-1855 1960-2582 2667-2700 2933-3375 3400-3486 3585-3762 3958-6673 7025-7599 7971-9976 10767-11076
HCWCG62	879	575336	AC009948	21671	1-174 295-500 666-1543 1691-1855 1960-2582 2667-2700 2933-3375 3585-3762 3958-4675 4786-6672 7024-7598 7970-9975 10766-11075 11265-11828 12489-13077 13297-15154 16020-16316 16758-17210 18079-18398 19515-20009 20250-20444
HCWCG62	879	575336	AC011743	21672	1-521
HCWCG62	879	575336	AC011743	21673	1-564
HCWCG62	879	575336	AC009948	21674	1-521
HCWCG62	879	575336	AC009948	21675	1-588
HCWCH22	881	675011	AL138762	21676	1-491
HCWCH22	881	675011	AL138762	21677	1-232
HCWCI01	883	921586	AC023958	21678	1-491
HCWCI01	883	921586	AL163032	21679	1-491
HCWCI01	883	921586	AC023958	21680	1-194
HCWCI01	883	921586	AL163032	21681	1-194
HCWCI86	885	790718	AC055809	21682	1-700
HCWCI86	885	790718	AC055809	21683	1-356
HCWCJ85	886	529243	AC008878	21684	1-314
HCWCJ85	886	529243	AC008878	21685	1-368
HCWCM96	892	963564	AC009309	21686	1-959 1851-2415 3778-3911 4196-4688 7008-7700

					9323-9553 9684-10186 12093-12315 12536-12679 14404-14894 15246-15747 16029-16504 17694-17861 18052-18157 18427-18774 19095-19466 19732-19963 20139-20236 20813-21313 22583-22719 23242-23445 24420-24713 24746-25108 25397-25797 25824-26169 26584-26921 27283-27422 27752-28268 29725-29836 34235-34345 35508-35698 37375-37449
HCWCM96	892	963564	AC009309	21687	1-158
HCWCN25	893	518793	AC007526	21688	1-306
HCWCN25	893	518793	AC026407	21689	1-305
HCWCN25	893	518793	AC011394	21690	1-305
HCWCN40	894	835584	AC044909	21691	1-295
HCWCN40	894	835584	AL032822	21692	1-295
HCWCN45	895	723418	AC046170	21693	1-533
HCWCN45	895	723418	AC019319	21694	1-533
HCWCN45	895	723418	AC004098	21695	1-533
HCWCN45	895	723418	AC046170	21696	1-273
HCWCN45	895	723418	AC019319	21697	1-281
HCWCN45	895	723418	AC004098	21698	1-264
HCWCO35	900	706490	AC069530	21699	1-515
HCWCO35	900	706490	AC069530	21700	1-360
HCWCO35	900	706490	AC069530	21701	1-120 201-397
HCWCO54	901	558274	AC007677	21702	1-412
HCWCO63	902	557917	AL160003	21703	1-426
HCWCO63	902	557917	AL160003	21704	1-540
HCWCO72	903	527546	AC005907	21705	1-625 818-1610 1948-2135 2489-2979 3346-3483 4096-4499 4930-5027 5029-5317 5352-5562 6246-6884 8347-8499

					8550-9149 9176-11308 11751-11850 11856-11872
HCWC077	904	772515	AC009753	21706	1-105
HCWC077	904	772515	AC009851	21707	1-105
HCWC077	904	772515	AC009753	21708	1-138
HCWC077	904	772515	AC009851	21709	1-130
HCWCP68	905	573148	AC022255	21710	1-434
HCWCP68	905	573148	AC022255	21711	1-107
HCWCP68	905	573148	AC022255	21712	1-269
HCWCQ15	906	527688	AL008639	21713	1-92 345-408 3923-4122 4188-4303 4746-5500 5932-6031 7443-7652 9516-9669 9915-10435 10976-11296 11458-11936 12133-13345
HCWCQ15	906	527688	AL008639	21714	1-720
HCWCQ48	907	531423	AL133284	21715	1-175
HCWCR64	910	526482	AC074289	21716	1-429
HCWCR64	910	526482	AC012368	21717	1-430
HCWCR64	910	526482	AC012368	21718	1-349 831-1388
HCWCR64	910	526482	AC074289	21719	1-349 831-1388 2666-3325
HCWCR64	910	526482	AC012368	21720	1-379
HCWCS12	911	585202	AL136303	21721	1-676
HCWCS51	912	921636	AC027752	21722	1-225
HCWCS51	912	921636	AC068583	21723	1-225
HCWCS51	912	921636	AC068583	21724	1-2107
HCWCT07	913	954070	AC011448	21725	1-226
HCWCT07	913	954070	AC011448	21726	1-324
HCWCT23	914	676336	AC068236	21727	1-255
HCWCT23	914	676336	AC015760	21728	1-255
HCWCT48	915	741925	AC005599	21729	1-255
HCWCT48	915	741925	AC005599	21730	1-102
HCWCT85	916	527543	AP001769	21731	1-359
HCWCT85	916	527543	AP000648	21732	1-359
HCWCT85	916	527543	AP000827	21733	1-359
HCWCU01	917	921618	AL109923	21734	1-255 936-1628
HCWCU01	917	921618	AL109923	21735	1-228
HCWCU01	917	921618	AL109923	21736	1-104
HCWCU17	918	577688	AC025525	21737	1-549
HCWCU17	918	577688	AC025525	21738	1-116
HCWCU57	920	764602	AC027808	21739	1-665
HCWCU57	920	764602	AC027808	21740	1-339
HCWCU57	920	764602	AC027808	21741	1-1301
HCWCU58	921	527695	AC009125	21742	1-311

HCWCU58	921	527695	AC009060	21743	1-51 217-367 1365-1452 1822-2008 2752-2863 4261-4457 6970-7091 10302-10457 10503-11101 11433-11898 12489-12601 14202-14297 15184-15322 16533-16621 16693-16857 17303-17359 17869-18145 19499-20015 20581-20799 21367-21642 22148-22233 23901-24407 24541-25102 25181-30620
HCWCU58	921	527695	AC009060	21744	1-595
HCWCU63	922	527541	AC017030	21745	1-173
HCWCU63	922	527541	AC020916	21746	1-173
HCWCU63	922	527541	AC017030	21747	1-207
HCWCU63	922	527541	AC017030	21748	1-1328
HCWCU63	922	527541	AC020916	21749	1-1331
HCWCU63	922	527541	AC020916	21750	1-547 1076-1793
HCWCU94	923	713416	AC027603	21751	1-553
HCWCU94	923	713416	AC011326	21752	1-553
HCWCU94	923	713416	AC026328	21753	1-553
HCWCV01	924	921569	AC026539	21754	1-350
HCWCV01	924	921569	AL031662	21755	1-55 1367-1716 5004-5109 5654-5774 6096-6164 6298-6354 7295-7421 10538-10857 11013-11061 11800-12057 12301-12438 14866-14898 14984-15038 15240-15420 17689-19632
HCWCV01	924	921569	AL031662	21756	1-258
HCWCV09	925	861950	AC011639	21757	1-420
HCWCV09	925	861950	AC016824	21758	1-420
HCWCV09	925	861950	AC009679	21759	1-420
HCWCV09	925	861950	AC016824	21760	1-1095
HCWCV09	925	861950	AC009679	21761	1-1095



HCWCV16	926	861839	AC024647	21762	1-500
HCWCV16	926	861839	AC024647	21763	1-679
HCWCV58	927	966512	AC041008	21764	1-458
HCWCV58	927	966512	AC015719	21765	1-458
HCWCV58	927	966512	AC041008	21766	1-309
HCWCV58	927	966512	AC015719	21767	1-309
HCWCV75	928	527080	AL138889	21768	1-388
HCWCV75	928	527080	AL138889	21769	1-365
HCWCV85	929	966987	AC004801	21770	1-338
HCWCX18	931	574933	AC055725	21771	1-360
HCWCX18	931	574933	AC023415	21772	1-360
HCWCX18	931	574933	AC023797	21773	1-120 135-715 1005-1364 1715-2180 2566-2672 3355-3621 3641-4033 4196-4285 5100-7482
HCWCX18	931	574933	AC055725	21774	1-466
HCWCX18	931	574933	AC023415	21775	1-581
HCWCX18	931	574933	AC023797	21776	1-463
HCWCX18	931	574933	AC023415	21777	1-466
HCWCY16	932	507191	AC009131	21778	1-230
HCWCY16	932	507191	AC009027	21779	1-230
HCWCY16	932	507191	AC009131	21780	1-110
HCWCY16	932	507191	AC009027	21781	1-110
HCWDB74	934	521894	AL161458	21782	1-294
HCWDB74	934	521894	AL161458	21783	1-299
HCWDD15	936	660571	AC046158	21784	1-382
HCWDD60	937	575555	AC009148	21785	1-164
HCWDD60	937	575555	AC021880	21786	1-164
HCWDD60	937	575555	AC021116	21787	1-164
HCWDH65	940	574250	AC068588	21788	1-505
HCWDH65	940	574250	AC068025	21789	1-505
HCWDH65	940	574250	AC068025	21790	1-139
HCWDH92	942	790618	AL354973	21791	1-401
HCWDI37	943	849867	AC024231	21792	1-382
HCWDI64	945	924632	AC068317	21793	1-359 1176-1454 1583-1848 1984-2236 2745-3037 3839-4417 4908-5403 5980-6204 6798-6833
HCWDI64	945	924632	AL358232	21794	1-293
HCWDI64	945	924632	AL160055	21795	1-293
HCWDI64	945	924632	AL358232	21796	1-448
HCWDI64	945	924632	AL358232	21797	1-253
HCWDI64	945	924632	AL160055	21798	1-36 328-607 736-1001 1137-1389

HCWDI64	945	924632	AL160055	21799	1-579
HCWDI72	946	573034	AC025882	21800	1-175
HCWDI72	946	573034	AC025882	21801	1-443
HCWDI79	947	526765	AC016802	21802	1-401
HCWDI79	947	526765	AC025924	21803	1-401
HCWDI79	947	526765	AC019049	21804	1-401
HCWDI89	949	953750	AP001268	21805	1-1253
HCWDI89	949	953750	AP001268	21806	1-356
HCWDI89	949	953750	AP001268	21807	1-285
HCWDI92	950	733422	AP000486	21808	1-202
HCWDI92	950	733422	AP000486	21809	1-314
HCWDJ21	951	524780	AL078474	21810	1-378
HCWDJ21	951	524780	AP000456	21811	1-378
HCWDJ31	953	531418	AC013379	21812	1-467
HCWDJ31	953	531418	AC013379	21813	1-660
HCWDJ45	954	523227	AC003678	21814	1-382
HCWDJ45	954	523227	AC003678	21815	1-341
HCWDJ45	954	523227	AC003678	21816	1-2063
HCWDJ89	955	697736	AL365218	21817	1-472
HCWDJ89	955	697736	AL160287	21818	1-471
HCWDJ89	955	697736	AL365218	21819	1-100
HCWDJ89	955	697736	AL160287	21820	1-100
HCWDL19	956	669721	AC019167	21821	1-363
HCWDL19	956	669721	AC036172	21822	1-363
HCWDL19	956	669721	AC019167	21823	1-1343
HCWDL45	957	889416	AC023100	21824	1-1181
HCWDL45	957	889416	Z98747	21825	1-1181
HCWDM02	959	920563	AC034250	21826	1-420
HCWDM14	962	849962	AC009119	21827	1-407
HCWDM23	963	676215	AC025157	21828	1-466
HCWDM23	963	676215	AC025157	21829	1-128
HCWDM60	964	754785	AC008542	21830	1-550 1475-1565 1656-1701 2491-2682 2914-3063 3183-3251 3356-3457 3789-3893 4285-4364 4397-4940 5629-5919 8897-9097 9145-9476 9692-9891
HCWDM60	964	754785	AC008542	21831	1-451
HCWDM79	965	578967	AC011308	21832	1-432
HCWDM79	965	578967	AC021849	21833	1-432
HCWDN15	966	557862	AC010359	21834	1-462
HCWDN15	966	557862	AC010356	21835	1-462
HCWDN15	966	557862	AC008889	21836	1-462
HCWDN15	966	557862	AC010359	21837	1-378
HCWDN15	966	557862	AC010356	21838	1-219
HCWDN15	966	557862	AC010359	21839	1-219
HCWDN15	966	557862	AC010356	21840	1-381
HCWDN15	966	557862	AC008889	21841	1-219

HCWDN15	966	557862	AC008889	21842	1-381
HCWDN60	967	861882	AC022814	21843	1-268
HCWDN60	967	861882	Z99714	21844	1-153 1584-2108 4403-4562 5304-5525 6006-6361 6631-7469 8244-8458 9360-9743 10650-11161 11409-11527 12203-12977 13014-13109 13636-13836 15204-15942 16118-16668 16775-17040 17562-18374 18999-19910 20892-21198 21815-21924 22895-23580 24862-25003 25250-25382 25859-25968 27407-27447 28073-29317 30419-31796 31850-32347 33907-34503
HCWDN60	967	861882	Z99714	21845	1-151 1020-1186 2420-2952 3080-3188 3495-4160 4177-4432 5168-5639 5737-5983 6477-6794 7112-7260 7397-9014 9067-9212 9443-11500 11855-12013 13566-13667 13767-14028 15994-16031 17955-18132
HCWDO56	969	961273	AC062037	21846	1-155 501-1118 1134-1271 1377-1602 3047-3308 3662-3781 4328-5057
HCWDO56	969	961273	AC062037	21847	1-101

HCWDP85	971	747141	AL354884	21848	1-240
HCWDP85	971	747141	AL354884	21849	1-456
HCWDR42	974	529354	AC022517	21850	1-677
HCWDR42	974	529354	AC021618	21851	1-677
HCWDR42	974	529354	AC022517	21852	1-421
HCWDR42	974	529354	AC022517	21853	1-628
HCWDR42	974	529354	AC021618	21854	1-816
HCWDR42	974	529354	AC021618	21855	1-421
HCWDS26	980	684696	AC013472	21856	1-593
HCWDS26	980	684696	AC013472	21857	1-100
HCWDS52	984	771881	AL163542	21858	1-383
HCWDS52	984	771881	AL163542	21859	1-259
HCWDS52	984	771881	AL163542	21860	1-301
HCWDS59	986	934914	AC016095	21861	1-657
HCWDS94	990	959650	AC005940	21862	1-116 475-768
HCWDT12	991	573487	AL035669	21863	1-111 865-1191 1302-1841 3279-4268 4293-5890 6336-7875 7899-8471 8661-9047 13609-14294 14494-14913 15696-16130 16339-16472 16691-17843 17938-18512 18813-18899 19731-19879 20325-21501 21631-22581 22644-22976 22985-23674 26596-27241 27688-27816 27920-27955 28635-28915 28964-29715 29994-30626
HCWDT12	991	573487	AL035669	21864	1-280
HCWDV82	994	529210	AL132712	21865	1-138
HCWDW05	995	852997	AC025151	21866	1-193
HCWDW05	995	852997	AC025375	21867	1-193
HCWDW05	995	852997	AC025375	21868	1-169
HCWDW05	995	852997	AC025151	21869	1-169
HCWDW08	996	861936	AC011625	21870	1-560
HCWDW08	996	861936	AC011625	21871	1-529
HCWDW29	999	849939	AC023910	21872	1-302
HCWDW33	1000	573554	AC013250	21873	1-954
HCWDW42	1001	462405	AC008610	21874	1-921 1736-2565 4086-4258
HCWDW43	1002	714423	AL390955	21875	1-354

HCWDW43	1002	714423	AL356439	21876	1-354
HCWDW57	1003	927656	AL161458	21877	1-320
HCWDW57	1003	927656	AL353691	21878	1-320
HCWDW57	1003	927656	AL161458	21879	1-657
HCWDW57	1003	927656	AL161458	21880	1-180
HCWDW57	1003	927656	AL353691	21881	1-180
HCWDW61	1004	574859	AC004961	21882	1-105 732-832 3958-4228 4313-4583
HCWDW61	1004	574859	AC004961	21883	1-459 1154-1471 2655-2798 2982-3288 3469-3913 4609-4775 5902-6207 6709-7261 10133-12523 13136-13290 13327-13532 14060-14415 15330-15958 20773-21333 24655-24799 28583-28995 29856-30019 31963-32453 33826-33923
HCWDW62	1005	849960	AC011234	21884	1-553
HCWDW62	1005	849960	AC011234	21885	1-232
HCWDW73	1006	861934	AC021291	21886	1-387
HCWDW73	1006	861934	AC074331	21887	1-387
HCWDW73	1006	861934	AC074331	21888	1-43 55-147 487-713 2216-2346 3245-3599 4463-4529 4767-4997 5300-5761 6981-7352 7443-7654 7751-8526 9253-10278 10397-11424 11500-12586
HCWDW94	1011	753166	AC032007	21889	1-1104
HCWDX36	1015	861932	AC020780	21890	1-862 2753-4007
HCWDX36	1015	861932	AC011426	21891	1-566
HCWDX36	1015	861932	AC011426	21892	1-492
HCWDX36	1015	861932	AC011426	21893	1-862
HCWDX52	1017	661568	AP001780	21894	1-906
HCWDX52	1017	661568	AC036186	21895	1-905
HCWDX52	1017	661568	AP001780	21896	1-565
HCWDX52	1017	661568	AC036186	21897	1-114

HCWDX52	1017	661568	AC036186	21898	1-565
HCWDX65	1018	920877	AL031296	21899	1-493
HCWDX65	1018	920877	AL031296	21900	1-181
HCWDX65	1018	920877	AL031296	21901	1-152
HCWDX85	1020	861933	AC023782	21902	1-409
HCWDX85	1020	861933	AC023782	21903	1-151
HCWDZ13	1022	657398	AL353152	21904	1-401
HCWDZ89	1023	576697	AC009309	21905	1-66 74-225
HCWDZ89	1023	576697	AC009309	21906	1-106
HCWDZ89	1023	576697	AC009309	21907	1-272
HCWEA30	1024	681277	AC025278	21908	1-302 1090-1492 3950-4274
HCWEA65	1025	849918	AC009405	21909	1-382
HCWEA65	1025	849918	AC016818	21910	1-382
HCWEA65	1025	849918	AC009405	21911	1-201
HCWEA65	1025	849918	AC016818	21912	1-201
HCWEA77	1026	666180	AC008164	21913	1-396
HCWEA77	1026	666180	AC008164	21914	1-247
HCWEA77	1026	666180	AC008164	21915	1-364
HCWEA82	1028	719028	AC006026	21916	1-372
HCWEA82	1028	719028	AC006026	21917	1-281
HCWEA82	1028	719028	AC006026	21918	1-230
HCWEA86	1030	574858	AL353813	21919	1-362
HCWEA86	1030	574858	AC023067	21920	1-362
HCWEA86	1030	574858	AL161912	21921	1-362
HCWEB28	1033	932114	AL355675	21922	1-694
HCWEB28	1033	932114	AL109917	21923	1-694
HCWEB28	1033	932114	AL355675	21924	1-500 765-1367 1595-1719
HCWEB28	1033	932114	AL109917	21925	1-105
HCWEB71	1038	573147	AC068625	21926	1-431
HCWEB71	1038	573147	AC068625	21927	1-156
HCWEB71	1038	573147	AC068625	21928	1-268
HCWED11	1039	948689	AC020915	21929	1-441
HCWED11	1039	948689	AC010618	21930	1-317 521-822 1151-1591 2509-2907 3350-4067 4074-4749 4928-5223 5639-5744
HCWED11	1039	948689	AC010618	21931	1-107
HCWED13	1040	573413	AC023407	21932	1-461
HCWED13	1040	573413	AC021907	21933	1-461
HCWED13	1040	573413	AC025284	21934	1-461
HCWED61	1041	971865	AC022842	21935	1-97 166-478 1467-1528
HCWED61	1041	971865	AC055767	21936	1-1151 1251-1734 2170-2343 2419-2673

					2724-2789
HCWED61	1041	971865	AC055767	21937	1-364
HCWEE07	1044	953731	AC069434	21938	1-463
HCWEE07	1044	953731	AF230667	21939	1-463
HCWEE22	1045	572960	AL139282	21940	1-348
HCWEE22	1045	572960	AL354986	21941	1-349
HCWEE22	1045	572960	AL357500	21942	1-351
HCWEE22	1045	572960	AC025145	21943	1-349
HCWEE22	1045	572960	AC025145	21944	1-310
HCWEE74	1046	738264	AC027272	21945	1-472
HCWEE74	1046	738264	AC016586	21946	1-472
HCWEE74	1046	738264	AC027272	21947	1-148
HCWEE74	1046	738264	AC027272	21948	1-401
HCWEE74	1046	738264	AC016586	21949	1-399
HCWEE74	1046	738264	AC016586	21950	1-148
HCWEF95	1052	526766	AL138736	21951	1-1013
HCWEF95	1052	526766	AC012120	21952	1-1013
HCWEF95	1052	526766	AL138736	21953	1-285
HCWEF95	1052	526766	AL138736	21954	1-205
HCWEF95	1052	526766	AC012120	21955	1-285
HCWEG23	1054	531421	AC007674	21956	1-408
HCWEG31	1055	693687	AP000168	21957	1-408
HCWEG31	1055	693687	AP000053	21958	1-408
HCWEG31	1055	693687	AP000121	21959	1-408
HCWEG51	1057	964642	AC008167	21960	1-303
HCWEG51	1057	964642	AC004983	21961	1-303
HCWEG51	1057	964642	AC008167	21962	1-113
HCWEG70	1059	881254	AC015994	21963	1-1527
HCWEG70	1059	881254	AC015994	21964	1-405
HCWEG70	1059	881254	AC015994	21965	1-334
HCWEH27	1061	527050	AC023230	21966	1-940 1013-1157 1230-1679 1739-3513 3602-3782 3869-4022 4120-4274 4350-4663 4949-5092 5482-5550 5629-5742 5855-5932 6070-6130 6253-7016
HCWEH27	1061	527050	AC023230	21967	1-347
HCWEH27	1061	527050	AC023230	21968	1-1185 1190-2968 3139-3219 3401-3612 3680-4094
HCWEH94	1065	667919	AC026516	21969	1-128
HCWEH94	1065	667919	AC078873	21970	1-114
HCWEH94	1065	667919	AC012318	21971	1-147
HCWEH94	1065	667919	AC068682	21972	1-153
HCWEH94	1065	667919	AC055774	21973	1-109
HCWEH94	1065	667919	AC074121	21974	1-88

HCWEH94	1065	667919	AC011962	21975	1-102
HCWEH94	1065	667919	AC055884	21976	1-90
HCWEH94	1065	667919	AC004906	21977	1-60 442-1217 1321-2158 3261-3312 5686-5819 6719-6782
HCWEH94	1065	667919	AC055884	21978	1-430
HCWEH94	1065	667919	AC004906	21979	1-84 456-583 3605-3844 4629-4725 5286-5389 5831-5926 7835-7977 8285-8525 9103-9344 9748-9929 10636-11129 12931-13166 14845-15073 16371-18376
HCWEI30	1067	666625	AC010300	21980	1-273
HCWEI43	1068	573508	AL357079	21981	1-445
HCWEI43	1068	573508	AC005051	21982	1-445
HCWEI43	1068	573508	AC004950	21983	1-445
HCWEI45	1069	576852	AC022221	21984	1-1505
HCWEI78	1070	861918	AC010365	21985	1-289
HCWEI83	1072	529351	AC007957	21986	1-326
HCWEI83	1072	529351	AC007957	21987	1-104
HCWEI83	1072	529351	AC007957	21988	1-376
HCWEI91	1073	529650	AC012325	21989	1-550
HCWEJ26	1077	576717	AC068617	21990	1-548
HCWEJ26	1077	576717	AL121834	21991	1-623
HCWEJ26	1077	576717	AC074296	21992	1-621
HCWEJ26	1077	576717	AL121834	21993	1-572
HCWEJ26	1077	576717	AL121834	21994	1-218
HCWEJ26	1077	576717	AC074296	21995	1-141
HCWEJ26	1077	576717	AC074296	21996	1-572
HCWEJ69	1079	757674	AP000937	21997	1-37 1494-1570 2152-4007 4318-4452 5221-5719 7271-7537 12324-12603 12657-12738 13443-13589 14476-14518
HCWEJ69	1079	757674	AC007941	21998	1-37 1494-1570 2152-2815 2890-4007 4318-4452 5221-5719 7271-7537



					12324-12603 12657-12738 13443-13589 14476-14518
HCWEJ69	1079	757674	AC015566	21999	1-37 1494-1570 2152-2815 2890-4008 4319-4453 5222-5720 7272-7538 12325-12604 12658-12739 13444-13590 14477-14519
HCWEJ69	1079	757674	AC007941	22000	1-214
HCWEJ69	1079	757674	AC015566	22001	1-214
HCWEK74	1082	573134	AC007685	22002	1-562
HCWEK74	1082	573134	AC007685	22003	1-528
HCWEK80	1083	574157	AP001053	22004	1-439
HCWEK80	1083	574157	AP001052	22005	1-439
HCWEK80	1083	574157	AP001053	22006	1-240
HCWEK80	1083	574157	AP001052	22007	1-240
HCWEK84	1084	572843	AL353695	22008	1-300
HCWEK84	1084	572843	AC011156	22009	1-300
HCWEL27	1089	572846	AC005399	22010	1-459
HCWEL55	1092	572951	AL359260	22011	1-98 514-856 1073-1766 2023-2133 3183-3274
HCWEL55	1092	572951	AL359260	22012	1-154
HCWEM10	1094	968044	AC023958	22013	1-314
HCWEM10	1094	968044	AL163032	22014	1-359
HCWEM10	1094	968044	AC023958	22015	1-880
HCWEM10	1094	968044	AL163032	22016	1-880
HCWEP18	1099	913670	AC046176	22017	1-410
HCWEP18	1099	913670	AC046176	22018	1-725
HCWEP43	1103	921346	AL161611	22019	1-414
HCWEP43	1103	921346	AL160257	22020	1-414
HCWEQ14	1105	908245	AC002985	22021	1-176 897-1472 1978-2508 2643-2839 2922-3063 4548-4626 4937-5018 5191-5296 5557-5963 6618-6695 6744-7267 8084-8172 8283-8355 8441-8948
HCWEQ14	1105	908245	AC002985	22022	1-148
HCWEQ14	1105	908245	AC002985	22023	1-586

					630-757 905-970 975-1065 1655-1799 2124-2213 2311-2426 2773-2933 3725-3847 4522-4664 5101-5212 6590-6691 7516-7705 7715-7816 8298-8424 9153-9695 9768-9851 11121-11152 11850-12026
HCWEQ15	1106	660520	AC025384	22024	1-216
HCWEQ15	1106	660520	AC046171	22025	1-220
HCWEQ15	1106	660520	AF015723	22026	1-314
HCWEQ37	1108	849985	AL122034	22027	1-309
HCWEQ89	1109	529240	AC061706	22028	1-604 766-1281 1371-1483 2143-2741
HCWEQ89	1109	529240	AC027445	22029	1-604 766-1281 1371-1483 2143-2741
HCWEQ89	1109	529240	AC027445	22030	1-495 835-1977
HCWEQ89	1109	529240	AC061706	22031	1-495 835-1977
HCWER81	1113	574167	AC073241	22032	1-748
HCWES03	1114	921933	AP000763	22033	1-1386
HCWES03	1114	921933	AP000763	22034	1-414
HCWES03	1114	921933	AP000763	22035	1-433
HCWES06	1115	935862	AC011676	22036	1-143
HCWES06	1115	935862	AC011676	22037	1-105
HCWEW76	1117	861966	AC025804	22038	1-430
HCWEW76	1117	861966	AL121574	22039	1-786
HCWEW76	1117	861966	AC025804	22040	1-211
HCWEW76	1117	861966	AL121574	22041	1-160
HCWEW76	1117	861966	AL121574	22042	1-211
HCWEW77	1118	664922	AC026053	22043	1-654
HCWEW77	1118	664922	AC022262	22044	1-797 2417-2631 3781-3997 5774-5862 5864-6192 14342-14714 15388-15925 17245-17496 17801-18454 20879-21165 21765-22481

					23649-24248 25816-25983 27115-27246 28306-28431 33092-33393 33904-34036 34043-34295 35283-35905 36805-36930 37389-37735 38208-38351 39019-39139 39211-39353
HCWEW77	1118	664922	AL020995	22045	1-797 2417-2632 3782-3998 5774-5862 5879-6191 14346-14718 15392-15929 17249-17500 17805-18458 20882-21168 21768-22484 23652-24251 25819-25986 27118-27249 28309-28434 33096-33397 33908-34040 34047-34299 35287-35909 36809-36934 37393-37739 38212-38355 39024-39144 39216-39358
HCWEW77	1118	664922	AC026053	22046	1-252
HCWEW77	1118	664922	AC022262	22047	1-124
HCWEW77	1118	664922	AC022262	22048	1-756
HCWEW77	1118	664922	AL020995	22049	1-124
HCWEW77	1118	664922	AL020995	22050	1-756
HCWEX40	1120	574940	AC008649	22051	1-285 306-382 720-1139 1793-2375 2870-2962 3179-3563 5665-5743 5807-5907 6432-7120 7203-7313 7859-7930 8015-8104 8314-8379 8686-8861 9409-9512

					9701-9757 9859-9971 12300-12359 12451-12528 13815-13898 16274-16373 16872-17183 17782-17865 17942-18104 18128-18592 20238-20288 20363-20407 20485-20543 21969-22048 22283-22399 22926-23507 23618-23679 24690-24792 24985-25115 25117-25293 26253-26327 26418-26461 26620-26665 26763-26819 28569-28631 29121-29382 29726-29819 29943-29998 30170-30393
HCWEX40	1120	574940	AC008649	22052	1-355
HCWEX40	1120	574940	AC008649	22053	1-59 887-957 1045-1150 1484-1534 2280-2522
HCWEX59	1121	709560	AL360177	22054	1-422
HCWEX59	1121	709560	AC026046	22055	1-422
HCWEX66	1122	731772	AC021617	22056	1-306
HCWEX66	1122	731772	AC012466	22057	1-306
HCWEX66	1122	731772	AC069254	22058	1-328
HCWEX66	1122	731772	AC012466	22059	1-88
HCWEX66	1122	731772	AC069254	22060	1-195
HCWEX66	1122	731772	AC021617	22061	1-88
HCWEX66	1122	731772	AC012466	22062	1-195
HCWEX66	1122	731772	AC069254	22063	1-88
HCWEY84	1126	952692	AC022270	22064	1-552
HCWEY84	1126	952692	AC022270	22065	1-111
HCWEY88	1127	785508	AC040901	22066	1-363
HCWFA14	1128	925301	AL157935	22067	1-928 2503-3148 3150-3465 3744-3769
HCWFA88	1130	578943	AP000126	22068	1-437
HCWFA88	1130	578943	AP000204	22069	1-437
HCWFA88	1130	578943	AP000244	22070	1-437
HCWFA88	1130	578943	AP000126	22071	1-218
HCWFA88	1130	578943	AP000204	22072	1-218

HCWFA88	1130	578943	AP000244	22073	1-218
HCWFA89	1131	574370	AC009125	22074	1-268
HCWFA89	1131	574370	AC019092	22075	1-268
HCWFA89	1131	574370	AC069176	22076	1-251
HCWFA89	1131	574370	AC023463	22077	1-251
HCWFA89	1131	574370	AC022030	22078	1-268
HCWFA89	1131	574370	AC009018	22079	1-268
HCWFA89	1131	574370	AC025279	22080	1-251
HCWFA89	1131	574370	AC017077	22081	1-250
HCWFA89	1131	574370	AP001120	22082	1-878
HCWFA89	1131	574370	AF001549	22083	1-43 773-1624 1688-1950 2889-3608
HCWFA89	1131	574370	AC005136	22084	1-416
HCWFA89	1131	574370	AC023814	22085	1-251
HCWFA89	1131	574370	AC009053	22086	1-886
HCWFA89	1131	574370	AC012645	22087	1-329
HCWFA89	1131	574370	AC009022	22088	1-268
HCWFA89	1131	574370	AC009124	22089	1-251
HCWFA89	1131	574370	AC008956	22090	1-329
HCWFA89	1131	574370	AC026468	22091	1-268
HCWFA89	1131	574370	AC008864	22092	1-251
HCWFA89	1131	574370	AC009153	22093	1-886
HCWFA89	1131	574370	AC008740	22094	1-167 1841-1957 3372-3551 4869-4992 5466-5717 5843-6191 7293-7774 8896-9272 9583-9836 9840-10644 13160-13283 13744-14475 14520-14636 15266-15361 15900-16312 16532-16643 16921-17097 17536-17989 18208-18629 19399-19659 20067-20688 21802-22114 22172-22422 22510-23142 23222-33147
HCWFA89	1131	574370	AC002039	22095	1-1218 1220-1916 1937-3713 3725-3793 3834-5438 5906-6789 6891-7224 7389-7998

					9080-9743
					9880-10603
					11304-13014
					14185-14384
					15014-15725
					16161-16766
					16926-18485
					18494-18864
					18930-19044
					19046-19377
					19774-20053
					21220-21318
					21940-22031
					22039-22197
					22323-22643
					28500-28790
					29735-30291
					30336-30764
					32404-33053
					35852-36141
					36690-37098
					38177-38534
					40101-40414
					41275-41645
					41666-42091
					42241-42575
					43229-47148
					47179-48851
					49078-49311
					49397-49740
					49882-49986
					51160-51603
					51635-51799
					52134-52375
					53063-55275
					55660-56161
					56338-56640
					56665-56903
					57599-57830
					57851-58910
					59342-60401
					60456-60864
					60897-61676
					61775-62191
					62271-62487
					62571-62727
					62739-62985
					63402-64464
					64477-64674
					64798-65056
					65231-65390
					65493-65608
					65684-66305
					66788-66933
					67693-68029
					68077-68356
HCWFA89	1131	574370	AC002544	22096	1-329

HCWFA89	1131	574370	AC020757	22097	1-879
HCWFA89	1131	574370	AC002045	22098	1-878
HCWFA89	1131	574370	U91326	22099	1-876
HCWFA89	1131	574370	AC009060	22100	1-268
HCWFA89	1131	574370	AC025279	22101	1-632 714-7858
HCWFA89	1131	574370	AC017077	22102	1-269
HCWFA89	1131	574370	AP001120	22103	1-681
HCWFA89	1131	574370	AC019092	22104	1-184
HCWFA89	1131	574370	AF001549	22105	1-533 614-9917 10060-11174 11180-11605 11793-12406 12614-12777 13147-13353 13470-15636 15807-16384 16535-17573 17705-17941 18061-18339 18482-20124 20370-20806 20812-23232 23388-23675 23810-28113 28132-31405
HCWFA89	1131	574370	AC025279	22106	1-699
HCWFA89	1131	574370	AC005136	22107	1-294
HCWFA89	1131	574370	AP001120	22108	1-1087
HCWFA89	1131	574370	AC023814	22109	1-10162 10303-10536 10549-11853
HCWFA89	1131	574370	AC005136	22110	1-232
HCWFA89	1131	574370	AC023814	22111	1-546
HCWFA89	1131	574370	AC009053	22112	1-106
HCWFA89	1131	574370	AC012645	22113	1-302
HCWFA89	1131	574370	AC009022	22114	1-104
HCWFA89	1131	574370	AC009124	22115	1-313
HCWFA89	1131	574370	AC012645	22116	1-633 826-10497
HCWFA89	1131	574370	AC008956	22117	1-455
HCWFA89	1131	574370	AC026468	22118	1-104
HCWFA89	1131	574370	AC008864	22119	1-313
HCWFA89	1131	574370	AC009022	22120	1-533
HCWFA89	1131	574370	AC009153	22121	1-292
HCWFA89	1131	574370	AC009124	22122	1-8331
HCWFA89	1131	574370	AC008956	22123	1-106
HCWFA89	1131	574370	AC026468	22124	1-532
HCWFA89	1131	574370	AC008864	22125	1-9439
HCWFA89	1131	574370	AC002039	22126	1-216 309-591 719-949
HCWFA89	1131	574370	AC002039	22127	1-1122
HCWFA89	1131	574370	AC002544	22128	1-293
HCWFA89	1131	574370	AC020757	22129	1-294

HCWFA89	1131	574370	AC002544	22130	1-530
HCWFA89	1131	574370	AC002045	22131	1-827
HCWFA89	1131	574370	AC020757	22132	1-102
HCWFA89	1131	574370	AC002045	22133	1-102
HCWFA89	1131	574370	U91326	22134	1-102
HCWFA89	1131	574370	AC009060	22135	1-293
HCWFA89	1131	574370	AC009060	22136	1-522
HCWFC05	1132	932194	AC021320	22137	1-44 2986-3406 4053-5193 5391-5502 5522-7144 7153-7457 7760-8125 8258-8290
HCWFC05	1132	932194	AC018510	22138	1-1141 1339-1450 1470-3093 3102-3406 3709-4074 4207-4239
HCWFC05	1132	932194	AC018510	22139	1-421
HCWFC17	1133	573186	AC024428	22140	1-940 2969-3173
HCWFC17	1133	573186	AC024428	22141	1-806 1254-1700 1751-2511
HCWFD47	1138	671946	AC007163	22142	1-176 337-439 1654-1726 3786-3966 4113-4210 4770-4837 5551-5697 5859-6531 6669-6858 7202-7348 8009-8293 8408-8963 8997-9487 9618-9752 10513-12468
HCWFD47	1138	671946	AC007163	22143	1-293
HCWFD47	1138	671946	AC007163	22144	1-575
HCWFD64	1139	954575	AC026130	22145	1-341
HCWFD64	1139	954575	AC025518	22146	1-341
HCWFD64	1139	954575	AC026130	22147	1-445
HCWFD64	1139	954575	AC025518	22148	1-445
HCWFE06	1140	935856	AL161430	22149	1-526
HCWFE06	1140	935856	AL161430	22150	1-414
HCWFF88	1143	506577	AC025670	22151	1-300
HCWFF88	1143	506577	AL157951	22152	1-624
HCWFF88	1143	506577	AL157951	22153	1-409
HCWFF88	1143	506577	AL157951	22154	1-83
HCWFK35	1148	916795	AC007952	22155	1-513
HCWFK35	1148	916795	AC007952	22156	1-517



HCWFK35	1148	916795	AC003957	22157	1-517
HCWFK35	1148	916795	AC007952	22158	1-243
HCWFK35	1148	916795	AC007952	22159	1-452
HCWFK35	1148	916795	AC003957	22160	1-243
HCWFK35	1148	916795	AC007952	22161	1-243
HCWFK35	1148	916795	AC003957	22162	1-453
HCWFK73	1150	761655	AC012107	22163	1-127
HCWFK73	1150	761655	AC012107	22164	1-133
HCWFK73	1150	761655	AC012107	22165	1-113
HCWFK91	1151	954008	AC012634	22166	1-361
HCWFK91	1151	954008	AC012634	22167	1-109
HCWFK91	1151	954008	AC012634	22168	1-275
HCWFL10	1152	964853	AL031673	22169	1-421
HCWFL10	1152	964853	AL031673	22170	1-497
HCWFL10	1152	964853	AL031673	22171	1-847
HCWFL45	1154	577950	AL135794	22172	1-345
HCWFL45	1154	577950	AL135794	22173	1-567
HCWFL86	1156	523359	AC032015	22174	1-1017
HCWFL94	1157	575522	AC010646	22175	1-233
HCWFL94	1157	575522	AC036168	22176	1-217
HCWFL94	1157	575522	AC026491	22177	1-439 1239-1395 1783-2779 2956-3540 3650-3772 3781-4106 6023-6283 6363-7024 7557-7711 10937-11233 12728-12870 13214-13362 13714-15432 16010-16106
HCWFL94	1157	575522	AP001526	22178	1-226
HCWFL94	1157	575522	AC011263	22179	1-110
HCWFL94	1157	575522	AC022563	22180	1-165
HCWFL94	1157	575522	AC026491	22181	1-299
HCWFM43	1162	715387	AL390861	22182	1-180
HCWFM43	1162	715387	AL354734	22183	1-119 818-942 2853-3172 4467-4871 5036-5441 5894-5928 6546-6612 7514-7693 10233-10292 12806-12885 13460-13496
HCWFM43	1162	715387	AL354734	22184	1-118
HCWFM43	1162	715387	AL354734	22185	1-371
HCWFM59	1163	757660	AL355334	22186	1-361
HCWFM59	1163	757660	AL138767	22187	1-1381 2050-2522 4440-4997

					14458-14868 14924-15337 17709-18083 19255-19338 19868-20228 22966-23102 23239-25787 25816-26135 26153-26193 26195-27750 27788-27911 29939-30103 32291-32607 35221-35498 35912-36650 37543-37644 40237-40341 44908-45129 47910-48727
HCWFM59	1163	757660	AL138767	22188	1-439
HCWFM60	1164	740470	AC010894	22189	1-442
HCWFM60	1164	740470	AC010894	22190	1-367
HCWFM65	1165	849957	AC026266	22191	1-423
HCWFM65	1165	849957	AL135818	22192	1-420
HCWFM65	1165	849957	AL135818	22193	1-126
HCWFM65	1165	849957	AL135818	22194	1-269
HCWFN14	1167	680404	AL160054	22195	1-1003 1102-1368 1796-2112 2452-2728 3299-4438 5102-5517
HCWFN14	1167	680404	AL160054	22196	1-521 606-992 1040-1880
HCWFN14	1167	680404	AL160054	22197	1-604
HCWFN22	1168	674750	AC009726	22198	1-336
HCWFN22	1168	674750	AC009726	22199	1-391
HCWFN37	1169	576547	AC012385	22200	1-280
HCWFN37	1169	576547	AC026491	22201	1-283 308-501 972-1445 5875-6177 10800-11079 13849-14230 14451-14925
HCWFN37	1169	576547	AC012518	22202	1-280
HCWFN37	1169	576547	AC026491	22203	1-508
HCWFN37	1169	576547	AC026491	22204	1-393
HCWFO01	1170	916814	AC026113	22205	1-310
HCWFO01	1170	916814	AC063949	22206	1-310
HCWFO01	1170	916814	AC026113	22207	1-532 1297-1552
HCWFO01	1170	916814	AC063949	22208	1-532 1297-1552
HCWFO02	1171	920416	AC023194	22209	1-394
HCWFO24	1173	664581	AC023380	22210	1-418

HCWFO24	1173	664581	AC023380	22211	1-418
HCWFP71	1180	933211	AC011880	22212	1-349
HCWFP71	1180	933211	AC011880	22213	1-236
HCWFP81	1181	576363	AC023437	22214	1-321
HCWFP81	1181	576363	AC069262	22215	1-320
HCWFR11	1182	967266	AC010336	22216	1-1217 1582-2056 2618-2742 4764-5069
HCWFR11	1182	967266	AC010336	22217	1-230
HCWFR11	1182	967266	AC010336	22218	1-197 805-1100 3103-3199 4973-5292 5605-5734
HCWFR83	1183	721373	AC022214	22219	1-459
HCWFR83	1183	721373	AC022214	22220	1-632 776-1002
HCWFS22	1184	971566	AC016427	22221	1-142 334-406 1091-1265 1551-1900 2735-2872 4235-4670
HCWFS22	1184	971566	AL161452	22222	1-142 334-406 1091-1265 1551-1900 2735-2872 4235-4670
HCWFS22	1184	971566	AC016427	22223	1-432
HCWFS22	1184	971566	AC016427	22224	1-649
HCWFS22	1184	971566	AL161452	22225	1-432
HCWFS22	1184	971566	AL161452	22226	1-649
HCWFT33	1187	959471	AC011471	22227	1-268
HCWFT33	1187	959471	AC011471	22228	1-554
HCWFT77	1189	739571	AC004492	22229	1-1071
HCWFT77	1189	739571	AC004492	22230	1-578
HCWFT77	1189	739571	AC004492	22231	1-975
HCWFT84	1190	542236	AC013396	22232	1-396
HCWFT84	1190	542236	AC013396	22233	1-466
HCWFO3	1191	921944	AL135818	22234	1-1001
HCWFO3	1191	921944	AL135818	22235	1-214
HCWFO32	1194	716340	AC025040	22236	1-490
HCWFO76	1197	576839	AC005538	22237	1-332
HCWFO76	1197	576839	AC005538	22238	1-425 550-1275 6679-6809 6817-6933 21283-21383 35451-35518 38292-38375 38927-39277 45560-45723 46202-46957 48209-48361

					48764-48876 51816-51968 53821-53945 54006-54093 55196-55235
HCWFOU83	1198	574864	AL031295	22239	1-525
HCWFOU83	1198	574864	AL031295	22240	1-225
HCWFOU83	1198	574864	AL031295	22241	1-1379 1815-1935 2459-2563 2718-2820 2925-3046 3700-4004 5870-6191 6760-7040 7984-8882 9525-9840
HCWFOV25	1201	733993	AC008497	22242	1-865
HCWFOV25	1201	733993	AC004749	22243	1-865
HCWFOV25	1201	733993	AC008497	22244	1-779
HCWFOV25	1201	733993	AC008497	22245	1-1012
HCWFOV25	1201	733993	AC004749	22246	1-4838
HCWFOV25	1201	733993	AC004749	22247	1-776
HCWFOV32	1202	960099	AF001550	22248	1-404
HCWFOV34	1203	577896	AC021494	22249	1-468
HCWFOV34	1203	577896	AC005244	22250	1-468
HCWFOV34	1203	577896	AC021494	22251	1-287
HCWFOV34	1203	577896	AC005244	22252	1-293
HCWFOV69	1206	527087	AC004007	22253	1-619
HCWFOV69	1206	527087	AC004007	22254	1-321
HCWFOV69	1206	527087	AC004007	22255	1-238
HCWFOX23	1208	675902	AC025321	22256	1-307
HCWFOZ56	1212	733414	AL160291	22257	1-221
HCWFOZ56	1212	733414	AL160291	22258	1-152
HCWGA27	1213	861968	AL354795	22259	1-748
HCWGC02	1218	917348	AC021291	22260	1-520
HCWGC02	1218	917348	AC074331	22261	1-520
HCWGC02	1218	917348	AC021291	22262	1-544
HCWGC02	1218	917348	AC074331	22263	1-544
HCWGD33	1221	849909	AP000759	22264	1-314
HCWGD33	1221	849909	AP000822	22265	1-314
HCWGD33	1221	849909	AC069080	22266	1-314
HCWGD33	1221	849909	AP000759	22267	1-445
HCWGD33	1221	849909	AP000759	22268	1-302
HCWGD33	1221	849909	AP000822	22269	1-302
HCWGD33	1221	849909	AP000822	22270	1-447
HCWGD33	1221	849909	AC069080	22271	1-442
HCWGD33	1221	849909	AC069080	22272	1-302
HCWGD66	1222	496411	AC008803	22273	1-361
HCWGD66	1222	496411	AC022423	22274	1-2424 2437-2913 3913-4331 4438-4734 6062-6179 8894-9130 9632-9706

					10432-10781 10792-11114 11517-11984 12170-12569 14349-14709 20546-20612 21121-24268
HCWGD66	1222	496411	AC022444	22275	1-361
HCWGD66	1222	496411	AC008803	22276	1-400
HCWGD66	1222	496411	AC022423	22277	1-590
HCWGD66	1222	496411	AC022444	22278	1-400
HCWGD66	1222	496411	AC022423	22279	1-96 113-270
HCWGE12	1223	967067	AC020731	22280	1-471
HCWGE22	1224	727967	AC013489	22281	1-320
HCWGE22	1224	727967	AC013489	22282	1-140
HCWGE23	1225	853004	AL137020	22283	1-459
HCWGE23	1225	853004	AL359254	22284	1-459
HCWGE23	1225	853004	AL359254	22285	1-336 1270-1631 2558-2862 3808-4027
HCWGE23	1225	853004	AL137020	22286	1-292
HCWGE47	1228	925105	AL133274	22287	1-439
HCWGE53	1229	728249	AL390716	22288	1-345
HCWGE53	1229	728249	AL390716	22289	1-391
HCWGE65	1230	720349	AL358613	22290	1-398
HCWGE65	1230	720349	AL157705	22291	1-398
HCWGE65	1230	720349	AL358613	22292	1-429
HCWGE65	1230	720349	AL157705	22293	1-429
HCWGE92	1233	792722	AC022735	22294	1-131 4273-4835 5016-5420 5633-6068
HCWGE92	1233	792722	AC022735	22295	1-273
HCWGF06	1234	935492	AL353712	22296	1-1301 1371-1905 2007-2247 2876-3421 3563-3870 4129-4195 4665-5217 5366-5794 6663-6806 7372-7496 7791-7976 8511-9026 9083-9386 9679-10382
HCWGF06	1234	935492	AL158169	22297	1-1301 1371-1905 2007-2247 2876-3421 3563-3870 4129-4195 4665-5217 5366-5794

					6663-6809 7372-7496 7791-7976 8511-9026 9083-9386 9679-10403 10598-10821 10845-10932 14296-14883 17247-17519 18330-18558 19145-19191
HCWGF06	1234	935492	AL353712	22298	1-224
HCWGF06	1234	935492	AL158169	22299	1-386
HCWGF71	1235	960089	AC007456	22300	1-442
HCWGF71	1235	960089	AC008055	22301	1-442
HCWGF75	1237	682351	AC021102	22302	1-304
HCWGF75	1237	682351	AC021102	22303	1-322
HCWGF76	1238	752789	AC025408	22304	1-747
HCWGF76	1238	752789	AC011130	22305	1-747
HCWGF76	1238	752789	AC027663	22306	1-747
HCWGF76	1238	752789	AC025408	22307	1-334
HCWGF76	1238	752789	AC011130	22308	1-334
HCWGF76	1238	752789	AC027663	22309	1-334
HCWGF91	1239	754244	AC026189	22310	1-148
HCWGF91	1239	754244	AC016146	22311	1-252
HCWGF91	1239	754244	AC023480	22312	1-252
HCWGF91	1239	754244	AC018503	22313	1-253
HCWGF91	1239	754244	AC016146	22314	1-563
HCWGF91	1239	754244	AC023480	22315	1-134
HCWGF91	1239	754244	AC018503	22316	1-382
HCWGF92	1240	861865	AC015809	22317	1-609
HCWGF92	1240	861865	AC015809	22318	1-503
HCWGF92	1240	861865	AC022403	22319	1-1140
HCWGF92	1240	861865	AC022403	22320	1-408
HCWGF92	1240	861865	AC022403	22321	1-373
HCWQ07	1241	849889	AC068954	22322	1-391
HCWQ39	1242	849891	AC021515	22323	1-748
HCWQ39	1242	849891	AC021515	22324	1-126
HCWQ80	1245	529242	AL137787	22325	1-167
HCWQ84	1246	853106	AC010687	22326	1-1367
HCWQ84	1246	853106	AC010687	22327	1-464
HCWGR34	1247	923577	AC022616	22328	1-371
HCWGR43	1248	734888	AP000744	22329	1-555
HCWGR47	1249	719518	AC007684	22330	1-245
HCWGR47	1249	719518	AC007684	22331	1-1126
HCWGR69	1251	849946	AC004234	22332	1-245
HCWGR69	1251	849946	AC023415	22333	1-310
HCWGR69	1251	849946	AC016524	22334	1-296
HCWGR69	1251	849946	AC055735	22335	1-143
HCWGR69	1251	849946	AC009088	22336	1-286
					1767-1898 3233-3471
HCWGR69	1251	849946	AC013486	22337	1-465
HCWGR69	1251	849946	AC040979	22338	1-170
HCWGR69	1251	849946	AC018604	22339	1-298

HCWGR76	1252	778293	AC010736	22340	1-357
HCWGR76	1252	778293	AC010736	22341	1-553
HCWGR76	1252	778293	AC010736	22342	1-195
HCWGR88	1253	736056	AC068389	22343	1-208
HCWGR88	1253	736056	AC068389	22344	1-847
HCWGU11	1257	967064	AC026970	22345	1-638
HCWGU11	1257	967064	AC053528	22346	1-568 1921-2585
HCWGU11	1257	967064	AL158219	22347	1-568 1901-2567
HCWGU11	1257	967064	AL137863	22348	1-568 1901-2567
HCWGU57	1259	705637	AC069547	22349	1-498
HCWGU86	1260	666943	AC009130	22350	1-314
HCWGU86	1260	666943	AC009093	22351	1-314
HCWGU86	1260	666943	AC007615	22352	1-314
HCWGU86	1260	666943	AC009130	22353	1-248
HCWGU86	1260	666943	AC009093	22354	1-403
HCWGU86	1260	666943	AC007615	22355	1-402
HCWGW13	1263	849911	AL160174	22356	1-408
HCWGW13	1263	849911	AL157897	22357	1-408
HCWGW32	1264	615553	AP001270	22358	1-381 719-1175 1639-1935
HCWGW32	1264	615553	AP001270	22359	1-290
HCWGW85	1267	556369	AC024118	22360	1-536
HCWGW85	1267	556369	AL355384	22361	1-536
HCWGX41	1272	849887	AC004033	22362	1-391
HCWGX41	1272	849887	AC005500	22363	1-391
HCWGX41	1272	849887	AC007731	22364	1-391
HCWGX41	1272	849887	AC004033	22365	1-300
HCWGX41	1272	849887	AC004033	22366	1-446
HCWGX41	1272	849887	AC005500	22367	1-300
HCWGX41	1272	849887	AC007731	22368	1-300
HCWGX41	1272	849887	AC005500	22369	1-446
HCWGX41	1272	849887	AC007731	22370	1-446
HCWGX58	1273	920693	AC055807	22371	1-718
HCWGX58	1273	920693	AC055807	22372	1-492
HCWGX68	1274	733413	AL138794	22373	1-129
HCWGX68	1274	733413	AL138794	22374	1-260
HCWGX82	1275	924102	Z95115	22375	1-273
HCWGX82	1275	924102	Z95115	22376	1-693
HCWGX82	1275	924102	Z95115	22377	1-956 971-1547 1979-2186 4757-4958
HCWGX94	1276	793197	AP000669	22378	1-178
HCWGX94	1276	793197	AC022399	22379	1-383
HCWGX94	1276	793197	AP000669	22380	1-382
HCWGY12	1279	970693	AC023085	22381	1-458 484-1568 1656-2850 3659-4182 4458-5619
HCWGY12	1279	970693	AC023085	22382	1-153
HCWGY20	1280	669717	AC007224	22383	1-68

					544-1147 3115-3525 3788-4091 5053-5320 7017-7553 7719-8053 9313-9497 10297-10430 11988-12210 13329-15240 15824-16234 17381-17455 19419-19472 19913-20069 20167-20498 20735-20857 22688-23016 23558-23901 24284-24512
HCWGY20	1280	669717	AC007224	22384	1-624
HCWGY33	1281	702441	AL162505	22385	1-513
HCWGY33	1281	702441	AC023015	22386	1-513
HCWGY33	1281	702441	AC023015	22387	1-105
HCWGY43	1282	660568	AC063936	22388	1-1078 1380-2045
HCWGY43	1282	660568	AC063936	22389	1-439
HCWGY64	1283	670896	AL160060	22390	1-463
HCWGY64	1283	670896	AL157390	22391	1-463
HCWGY64	1283	670896	AL160060	22392	1-93 95-228
HCWGY64	1283	670896	AL160060	22393	1-103
HCWGY64	1283	670896	AL157390	22394	1-93 95-228
HCWGY64	1283	670896	AL157390	22395	1-103
HCWGY67	1284	861886	AC010531	22396	1-339 573-915 1603-1652 2328-2423
HCWGY67	1284	861886	AC010531	22397	1-451
HCWGY86	1287	711312	AC026068	22398	1-337
HCWHA03	1289	924189	AC006468	22399	1-965
HCWHA03	1289	924189	AC006468	22400	1-507
HCWHA03	1289	924189	AC006468	22401	1-103
HCWHA09	1290	968224	AP000589	22402	1-371
HCWHA09	1290	968224	AC003689	22403	1-371
HCWHA09	1290	968224	AP000589	22404	1-617
HCWHA09	1290	968224	AC003689	22405	1-617
HCWHA55	1292	731770	AC023241	22406	1-168
HCWHA55	1292	731770	AL352976	22407	1-168
HCWHA55	1292	731770	AC023241	22408	1-310
HCWHA55	1292	731770	AL352976	22409	1-328
HCWHA56	1293	733424	AP002403	22410	1-108
HCWHA56	1293	733424	AC013535	22411	1-106
HCWHA56	1293	733424	AL359996	22412	1-539
HCWHA56	1293	733424	AC015846	22413	1-126
HCWHA56	1293	733424	AL353793	22414	1-133